

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #1: Ensure safe drinking water.		Program #4900: Drinking Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.1	<b>TASK: Drinking Water Plan Review</b>  Review plans for new water production, treatment, storage and distributions facilities and appurtenances and modifications to existing facilities. Review plans for swimming pools.  <b>DELIVERABLES:</b>		
PPG PWSS Fed/ PWSS Fees	1) Issue Approval to Construct or project denials on water projects.	T = As needed      A = 465	Drinking Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> This total of 465 represents a 31% reduction in the number of applications approved in FY07. The primary reason for this appears to be the decrease in new house construction.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GF	7.60	31,145
GF (SRO)	5.00	17,923
PPG	29.40	124,433
PPG (SRO)	1.00	4,830
ST PWSS	35.00	143,395
PWSS Federal	37.00	146,446
PWSS Fees	9.00	33,910
WQFF	72.00	296,807
TOTAL	196.00	798,889

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1.1.2	<p><b>TASK: Drinking Water Compliance and Enforcement</b></p> <p>Conduct compliance inspections of drinking water systems. Investigate and resolve complaints relating to regulated facilities. Respond to drinking water emergencies.</p> <p>Evaluate, prepare and take informal and formal enforcement actions for violations of state drinking water program statutes and rules and for violations of delegated federal SDWA statutes and rules.</p> <p><b>DELIVERABLES:</b></p>		
PPG	<p>1) Drinking water sanitary surveys, prioritized by date of last survey.</p> <p>a) Annual inspections of all PWSs served by a surface water source.</p> <p>b) Scheduled inspections of PWS served by a ground water source; inspections are on a four-year cycle.</p> <p>c) Populate SDWIS sanitary survey fields.</p>	<p>T =</p> <p>a) 56                      <b>A = 40</b>  <b>NRO: 12</b>  <b>SRO: 16</b>  <b>PHX: 12</b></p> <p>b) 386                      <b>A = 416</b>  <b>NRO: 167</b>  <b>SRO: 119</b>  <b>PHX: 130</b></p> <p>c) As needed                      <b>Done</b></p>	<p>Compliance</p> <p>a)  NRO =  SRO =  PHX =</p> <p>b)  NRO =  SRO =  PHX =</p>
PPG	2) Issue Notices of Opportunity to Correct (NOCs) and/or Notices of Violation (NOVs) and track schedules as needed.	T = As needed <b>A = 51</b>	Compliance NRO = as needed SRO = as needed PHX = as needed
	3) Drinking water complaint investigations.	T = As needed <b>A = 71</b>	Compliance NRO = as needed SRO = as needed PHX = as needed
	4) Issue Administrative Orders and track schedules, as needed.	T = As needed <b>A = 5</b>	Compliance

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1.1.2	<b>TASK: Drinking Water Compliance and Enforcement (Cont'd)</b>  <b>DELIVERABLES:</b>		
	5) Evaluate and respond to EPA's Significant Noncompliance/Exception List. a) Based on the Fixed SNC list generated on April 30, 2007, address 25% of SNC exception systems. b) Discuss and identify EPA/State workshare (i.e. list of specific systems) for addressing fixed SNC/Exception list commitment. c) Monitor and report progress on State/EPA effort on addressing the commitment. d) Report accomplishments for inclusion in the October 2008 national reporting.	T =  a) 6/30/08 <b>A = 6/30/08</b>  b) 7/01/07 <b>A = 7/01/07</b>  c) Mid-yr (12/31/07) <b>Done</b>  d) End-yr (8/08)	Compliance
	6) Hold monthly meetings and/or conference calls with EPA to discuss drinking water enforcement. Document agreement on discussed items and follow up actions. At least one call each quarter will be devoted to discussing the SNC list and the details of actions taken on each SNC. The dates for the quarterly calls devoted to SNCs are scheduled as follows to coincide with the SNC/Exception Processing Cycle: -September 2007 -December 2007 -March 2008 -June 2008	T = 12 (monthly) <b>A = 12</b>	Compliance
PWSS Fees	7) Written Monthly Enforcement Report to EPA which includes: a) number of Administrative Orders issued; b) number of Administrative Orders issued resulting in compliance; c) penalties (civil and administrative, assessed and collected); d) brief description of SEPs accepted; e) brief description of civil actions initiated and concluded every two quarters (twice per year); and f) actions taken on any SNCs.	T = 12 (monthly) <b>A = 3</b>	Compliance
PPG	8) Administer delegated water programs and provide support as needed.	T = As needed <b>Done</b>	Compliance
	9) Track compliance with revised PWSS definition for applicable facilities in Arizona in SDWIS.	T = Quarterly <b>Done</b>	Compliance

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1.1.2	<b>TASK: Drinking Water Compliance and Enforcement (Cont'd)</b>  <b>DELIVERABLES:</b>		
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> Deliverable 1a: The original targets were incorrect in stating the total number of surface water PWS ADEQ inspects; ADEQ inspected all in FY08. Deliverable 6: 11 meetings and one mid-year meeting were held. Deliverable #7: ADEQ is still working to complete regular enforcement reports and suggests that it would be more productive in the next workplan to implement quarterly enforcement reports.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GF (DW)	10.00	38,320
GF (NRO)	44.68	191,331
GF (SRO)	48.76	217,838
ST PPG	14.00	58,437
ST PWSS	5.40	20,545
PPG (SRO)	2.00	9,660
PPG	12.00	34,285
GF DW ST PPG	12.00	53,135
GF SPEC AZPDES	10.00	37,062
WQFF	6.00	19,839
PWSS FEES	24.00	79,357
TOTAL	188.84	759,809

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.3	<b>TASK: Drinking Water Technical Assistance</b>  Monies provided by SRF set-a-sides will be used to pay third-party technical assistance providers for delivering technical assistance to individual PWSs, or groups of PWSs at ADEQ's direction, or developing tools that will benefit small water systems.*  Develop a WIFA/DEQ Partnership to provide technical assistance.  <b>DELIVERABLES:</b>		
	1) Finalize Master Priority List (MPL) for system level technical assistance in conjunction with WIFA.	T = Annually A = <b>Jan 2008</b>	Drinking Water
PPG	2) Oversee contractor performance in completing System Evaluations (SEs) for fundable range.	T = Ongoing A = <b>Ongoing</b>	Drinking Water
	3) Identify system level TA from System Evaluations (SEs) completed.	T = 30 days after SE completion A = <b>completed as scheduled</b>	Drinking Water
	4) Use fundable range identified in MPL for system level TA after completion of all Systems Evaluations (SEs).	T = 30 days after SE A = <b>completed as scheduled</b>	Drinking Water
PPG	5) Oversee contractor performance of system level TA for fundable range.	T = Ongoing A = <b>Ongoing</b>	Drinking Water
	6) Annual report to EPA in conjunction with WIFA	T = 9/01/07 A = <b>9/01/07</b>	Drinking Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b>			

NOTE: Third party contract by WIFA pending - \$150,000. Implementation of Capacity Development Local Assistance. WIFA will process invoices for system evaluation.

FTE FUNDING SOURCE	MONTHS	AMOUNT
PPG Contract - WIFA	1.00	4,522

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.4	<b>TASK: Operator Certification</b>  Section 1419 of the Safe Drinking Water Act requires states to adopt and implement a program for certification and recertification of the operators of community water systems (CWSs) and non-transient, non-community water systems (NTNCWSs) that meet the minimum standards set forth in guidelines to be published by EPA.  <b>DELIVERABLES:</b>		
	1) Conduct audits of approved third party trainer/testers.	T = Quarterly <b>Comments</b>	Drinking Water
	2) Review and verify professional development hours for certification renewals.	T = Ongoing <b>A = Ongoing, 10%</b>	Drinking Water
	3) Issue certificates to persons passing testing requirements.	T = Ongoing, within 7 days of receipt from third party vendors <b>A = Ongoing, as scheduled</b>	Drinking Water
	4) Process and resolve disputes between persons and third party testers.	T = As needed, within 30 days of receipt <b>Comments</b>	Drinking Water
	5) Maintain registry of certified operators.	T = Ongoing <b>A = Ongoing</b>	Drinking Water
	6) Partner with capacity development workshops to educate operators.	T = 6 <b>A = 6</b>	Drinking Water
	7) Annual report to EPA in conjunction with WIFA	T = 9/01/07 <b>A = 9/30/2007</b>	Drinking Water
	8) Approve third party training entities.	T = As needed <b>Comments</b>	Drinking Water
PWSS Fed	9) Implement Operator Certification Expense Reimbursement Grant (ERG) Program Workplan in conjunction with WIFA. a) Submit revised ERG workplan and budget to EPA.	T = Ongoing <b>A = Ongoing</b>  T = 8/31/07 <b>A = 8/31/07</b>	Drinking Water
	10) Maintain list of eligible operators for reimbursement to allow WIFA to provide funds.	T = Ongoing <b>A = Ongoing</b>	Drinking Water
PWSS Fed	11) Operator training reimbursement program. a) Number of operators eligible for reimbursement as of 7/1/07. b) Number of operators reimbursed for training and certification to date by certification level and grade c) Number of operators reimbursed to date by system size d) Number of operators still in need and eligible for reimbursement as of 6/30/08.	T = As needed <b>Comments</b>	Drinking Water

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1.1.4	TASK: Operator Certification (Cont'd)  DELIVERABLES:		
EXCEPTION REPORT COMMENTS			
<b>4TH QTR:</b> Deliverable 1, 4 & 8: The Drinking Water Programs Unit (DWPU) has been proctoring all operator certification exams since 07/01/07 while the testing portion of the program was reevaluated. As a result of the reevaluation period, the contract allowing third-party testers was suspended effective 6/30/2007. The DWPU is expecting to beta test a new third party testing process that utilizes the services of a community college and its testing center in early FY09. Deliverable 2: Approximately 10% of renewals are audited. Deliverable 11: a) 687 eligible for reimbursement; b) Distribution grade 1 = 67, Distribution grade 2 = 43, Distribution grade 3 = 16, Distribution grade 4 = 13, Treatment grade 1 = 54, Treatment grade 2 = 33, Treatment grade 3 = 12, Treatment grade 4 = 13; c) 206 operators for PWSs serving less than 3,300 persons. 129 operators for PWSs serving greater than or equal to 3,300 persons; d) 481 operators still need reimbursement training.			

\* Expense Reimbursement Grant funds deliverables 9.

FTE FUNDING SOURCE	MONTHS	AMOUNT
ST PWSS	7.00	20,681
PWSS Federal	13.20	49,418
TOTAL	20.20	70,099

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.5	<p><b>TASK: System Security New and Existing</b></p> <p>Assist Arizona public water systems in identifying the minimum amount of physical security required to adequately protect both the system's water source and infrastructure from intentional acts of vandalism and terrorism. Assist water systems in developing comprehensive Emergency Operations Plan (EOP) based on results from Vulnerability Self-Assessments.</p> <p>Develop and implement a training program to ensure that existing systems have the knowledge and awareness of security concerns related to their water system.</p> <p>Develop partnerships with organizations and other government agencies to ensure Emergency Management Planning (EMP) results in comprehensive and coordinated response to any unexpected incident experienced by Arizona water systems</p> <p><b>DELIVERABLES:</b></p>		
WPC II	1) Distribute EOP/ERP/VA templates to systems on an as needed basis, including small systems.	T = Ongoing    A = <b>Ongoing</b>	Drinking Water
WPC II	2) Incorporate EMP/ERP/VA topics into ongoing section capacity workshops, including small systems.	T = 6                      A = <b>6</b>	Drinking Water
WPC II	3) Coordinate with other federal, state and local agencies' water system security activities.	T = Ongoing    A = <b>Ongoing</b>	Drinking Water
WPC II	4) Identify and secure materials which will enhance water systems' security and responsiveness on water security issues and disseminate this new security information to water systems in a timely manner.	T = Ongoing    A = <b>Ongoing</b>	Drinking Water
WPC II	5) Provide drinking water systems with timely and reliable information and improve communication and coordination capabilities between states and drinking water systems through workshops, tabletop exercises, and other educational events.	T = Quarterly A = <b>Quarterly</b>	Drinking Water



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1.1.5	<b>TASK: System Security New and Existing (Cont'd.)</b>  <b>DELIVERABLES:</b>		
WPC II	6) Track enhancements presented by EPA to security efforts.	T = Ongoing    A = <b>Ongoing</b>	Drinking Water
PWSS Fed	7) Coordinate activities of rapid response team for water system security issues.	T = Ongoing <b>Comment</b>	Drinking Water Data Mgmt.
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> All deliverables have been done. Deliverable 7: The rapid response team does not exist. Information is exchanged using the WARN system.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
ST PWSS	6.00	20,673
PWSS Federal	6.00	19,839
Water Protection Coord. II (WPC II)	4.80	19,719
<b>TOTAL</b>	<b>16.80</b>	<b>60,231</b>

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1.1.6	<p><b>TASK: New and Existing System Capacity Development</b></p> <p>Assure that new community water systems and non-transient, non-community water systems which commenced operations since October 1, 1999, can demonstrate technical, managerial and financial capacity to operate in compliance with the requirements contained in the federal regulations in effect at the time the water system begins operations.</p> <p>Refine an internal system capacity development strategy to ensure that existing systems have the technical, managerial and financial capacity to operate in compliance with the requirements contained in the federal regulations.</p> <p>Implement the WIFA/DEQ Partnership to provide Operational Technical Assistance.</p> <p><b>DELIVERABLES:</b></p>		
PWSS Fed	1) Assist all newly proposed water systems in gaining adequate capacity prior to issuance of AOC.	T = Ongoing    A = <b>Ongoing</b>	Drinking Water
PWSS Fed	2) Update capacity development master priority list annually for existing systems.	T = 1                      A = <b>1</b>	Drinking Water
PWSS Fed	3) Conduct capacity development workshops targeting water systems from the master priority list.	T = 6                      A = <b>6</b>	Drinking Water
	4) Identify technical, managerial and financial (TMF) obstacles/challenges faced by existing systems and implement strategies to address the same.	T = Ongoing    A = <b>Ongoing</b>	Drinking Water
	5) Annual program evaluation report.	T = 09/30/07    A = <b>1/08/08</b>	Drinking Water
<p style="text-align: center;"><b>EXCEPTION REPORT COMMENTS</b></p> <p><b>4TH QTR:</b> All deliverables have been met.</p>			

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.6	TASK: New and Existing System Capacity Development (Cont'd)  DELIVERABLES:		

FTE FUNDING SOURCE	MONTHS	AMOUNT
ST PWSS	6.00	20,673
PWSS Federal	18.00	66,018
TOTAL	24.00	86,691

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.7	<b>TASK: SDW Monitoring Assistance Program (MAP)</b>  Develop and implement strategies to perform compliance monitoring for systems serving fewer than 10,000 populations. Provide technical assistance, develop and update monitoring guidance documents. Initiate and issue waivers. Update vulnerability assessments. Reconcile laboratory analysis report with requested tests. Reconcile laboratory test results with individual system monitoring requirements. Assure all follow-up samples are taken. GPS points of entry, as needed. Develop rules, as needed.  <b>DELIVERABLES:</b>		
	1) Update monitoring waivers for 2008 systems.	T = Ongoing A = <b>Ongoing</b>	Drinking Water
PPG	2a) Update monitoring schedules for all groundwater MAP PWS. 2b) Update monitoring schedules for all surface water MAP PWS.	T = a) Biweekly A = <b>Biweekly</b> T = b) Biweekly A = <b>Biweekly</b>	Drinking Water
PPG	3) Send MAP bills.	T = 11/01/07 A = <b>10/31/07</b>	Drinking Water
PWSS Fed/ PWSS Fees	4) Participate in capacity development assistance workshops.	T = 4 A = <b>4</b>	Drinking Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> Overall, the Monitoring Assistance Program (MAP) continues to exceed expectations as the program once again expanded its scope of compliance monitoring to include nitrate sampling in 2007. Even with this expanded service, MAP refunded roughly \$300,000.00 in base fee monies back to participating PWSs in FY08.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
ST PWSS	8.00	32,803
PWSS Federal	9.00	29,759
PPG	12.00	39,678
PWSS Fees	3.00	9,920
MAP Fee Fund	12.00	43,372
<b>TOTAL</b>	<b>44.00</b>	<b>155,532</b>

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.8	<p><b>TASK: Implement Source Water Protection</b></p> <p>Identify protective strategies and assist individual water systems with the planning, development and application of measures/actions necessary to implement the Source Water Protection Program.</p> <p><b>a) Source Water Protection</b> – transition from assessments to protection by providing technical assistance in planning and implementing local Source Water Protection for public water systems throughout Arizona.</p> <p><b>b) Source Water Assessments</b> – perform assessments for new individual sources or new systems which voluntarily choose to participate in source water protection by delineating source water protection areas, inventorying potential sources of contamination and performing vulnerability/susceptibility analysis.</p> <p><b>DELIVERABLES:</b></p>		
WHP	1) Conduct Source Water Protection Program workshops with PWSs to facilitate transition from assessments to protection.	T = Quarterly <b>Comment</b>	Drinking Water

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TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.8	<b>TASK: Implement Source Water Protection (Cont'd)</b>  <b>DELIVERABLES:</b>		
PWSS Fed	2) Produce source water assessments (SWA) for new PWSs that volunteer to participate in Source Water Protection (SWP) and update SWA for existing systems to include new sources for PWSs that volunteer to participate in Source Water Protection. a) Collect locational data using GPS. i) New drinking water sources ii) Potential sources of contamination (chemical use/storage) within ½ mile radius of a new or existing drinking water source. b) Delineate source water assessment areas for new PWSs/sources. Make sensitivity determinations for PWSs/sources through: i) Review of occurrence data ii) Review of sanitary surveys iii) Review hydrological characterization (50 foot clay layer). c) Conduct comprehensive inventories of potential sources of contamination d) Identify any changes in trends to the previously identified most prevalent and most threatening potential sources of contamination.	T = 4  <b>Comment</b>	Drinking Water
PWSS Fed	3) Use new and updated SWA as part of a PWSs development of a SWP plan.	T = 4  <b>A = 10</b>	
WHP	4) Assist community water systems to identify protection strategies and to implement those strategies.	T = 4  <b>A = 272</b>	
WHP	5) Assist community water systems in achieving minimized risk to public health, by moving towards substantial implementation.	T = 4  <b>A = 272</b>	

NOTE: Surface water protection activities will be paid by PWSS federal funds.

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1.1.8	TASK: Implement Source Water Protection (Cont'd)  DELIVERABLES:		
<p style="text-align: center;"><b>EXCEPTION REPORT COMMENTS</b></p> <p><b>4TH QTR:</b> Deliverable 1 A total of 24 Source Water Protection workshops were held. Deliverables 2 b, c and d, had no activity during this quarter; the approach was changed and the deliverables need to be changed. The 09 Work Plan is currently being revised to reflect these changes.</p>			

FTE FUNDING SOURCE	MONTHS	AMOUNT
Wellhead	42.00	176,861
PWSS FED	3.00	14,698
TOTAL	45.00	191,559

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Objective #1: Ensure safe drinking water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.1.9	<b>TASK: Drinking Water Monitoring and Reporting</b>  These activities will support all the monitoring and reporting requirements for public drinking water systems in accordance with state and federal drinking water rules.  <b>DELIVERABLES:</b>		
PWSS Fees	1) Evaluate and respond to EPA’s Significant Noncompliance/Exception List. a) Confirm true SNCs/exceptions and annotate list (within 30 days of final quarterly SNC/Exception List).	T = As needed <b>Comment</b>	Drinking Water
PPG	2) Complete SDWIS reporting for OECA on actions taken on new SNCs and exceptions.	T = Quarterly <b>A = 4</b>	Drinking Water
	3) Run monitoring/reporting rules in SDWIS, validate violations and ensure proper public notification is issued.	T = Quarterly <b>Comment</b>	Drinking Water
	4) Hold regular meetings and/or conference calls with EPA to discuss PWSS issues. Document agreement on discussed items and follow up actions.	T = 12 (Monthly) <b>A = 12</b>	Drinking Water
PWSS Fed	5) Complete identification of Groundwater Under the Influence (GUDI) systems. Discuss status of GUDI actions taken during monthly calls; track percentage of suspect sources for which determinations have been made.	T = As needed	Drinking Water
PWSS Fed	6) Review and provide comment on EPA’s Annual Compliance Report.	T = 06/08 <b>A = 6/08</b>	Drinking Water
PWSS Fed	7) Respond to/resolve significant issues identified and agreed upon as a result of the February 2007 data verification exercise.	T = 6/30/08 <b>A = 6/30/08</b>	Drinking Water



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1.1.9	TASK: Drinking Water Monitoring and Reporting (Cont'd)  DELIVERABLES:		
<p style="text-align: center;"><b>EXCEPTION REPORT COMMENTS</b></p> <p><b>4TH QTR:</b> All deliverables were completed during FY 08. Deliverable 1: There were 4 responses to EPA's Significant Noncompliance/Exception List. Deliverable 3: Monitoring/reporting rules were completed monthly, quarterly and annually, depending on the rule. Deliverable 5: ADEQ continues to apply MPA sampling requirements on an as needed basis to new and/or newly identified groundwater sources that meet suspect GUDI rule requirements. Deliverable 6 was completed by WIFA.</p>			

FTE FUNDING SOURCE	MONTHS	AMOUNT
ST PWSS	25.26	108,452
PPG	12.50	42,711
PWSS Federal	60.24	227,956
PWSS Fees	3.00	11,972
TOTAL	101.00	391,091

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4400: Underground Water Regulation Program #4500: Surface Water Regulation	
Objective #2: Reduce pollutant loading to groundwater.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.2.1	<p><b>TASK: Groundwater Protection – Permits, Compliance and Enforcement</b></p> <p>Carryout statutory requirements of Arizona’s pesticide and groundwater protection programs, reclaimed water and subdivisions. Maintain compliance with these programs through effective permitting and inspection activities in accordance with Department practice and policies.</p> <p>Evaluate, prepare and take informal and formal enforcement actions for violations of state water quality statutes, rules and permit conditions.</p> <p><b>DELIVERABLES:</b></p>		
	1) Drywell registrations: a) Register existing and new dry wells (Class V injection wells). b) Evaluate wells to determine potential impact from waste disposal activities in drainage area to assess need for APP. c) Maintain drywell database.	T = 100-200/monthly <b>A = 280</b>	Groundwater
PPG	2) Continue to communicate with EPA on groundwater related issues.	T = Ongoing <b>Comment</b>	Groundwater
NPS IX	3) Report on Notices of Transfer (NOT) processed for septic systems.	T = Quarterly <b>A = 4</b>	Groundwater
PPG	4) Perform scheduled inspections of those facilities possessing an individual APP or GWPP permit.	T = 93 <b>A = 199</b> <b>NRO: 26</b> <b>SRO: 63</b> <b>PHX: 110</b>	Compliance NRO = 32 SRO = 18 PHX = 43
PPG	5) Perform scheduled inspections of those facilities possessing a reuse permit.	T = 30 <b>A = 73</b> <b>NRO: 13</b> <b>SRO: 25</b> <b>PHX: 35</b>	Compliance NRO = 5 SRO = 5 PHX = 20
PPG	6) Perform compliance inspections of those facilities that require an APP but have not been issued one.	T = As needed <b>A = 26</b> <b>NRO: 9</b> <b>SRO: 1</b> <b>PHX: 16</b>	Compliance NRO = As needed SRO = As needed PHX = As needed
PPG	7) Perform scheduled compliance inspections of those facilities that have been issued an APP general permit.	T = 58 <b>A = 119</b> <b>NRO: 30</b> <b>SRO: 51</b> <b>PHX: 38</b>	Compliance NRO = 18 SRO = 20 PHX = 20

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #4400: Underground Water Regulation</b>	
<b>Objective #2: Reduce pollutant loading to groundwater.</b>		<b>Program #4500: Surface Water Regulation</b>	
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.2.1</b>	<b>TASK: Groundwater Protection – Permits, Compliance and Enforcement (Cont'd)</b>  <b>DELIVERABLES:</b>		
	8) Issue Notices of Opportunity to Correct (NOCs) and/or Notices of Violation (NOVs) and monitor corrective actions taken to return to compliance.	T = As needed <b>A = 61</b> <b>NRO: 10</b> <b>SRO: 13</b> <b>PHX: 38</b>	Compliance NRO = As needed SRO = As needed PHX = As needed
	9) Complaint investigations will be conducted according to Agency complaint investigation protocols and guidelines.	T = As needed <b>A = 73</b> <b>NRO: 16</b> <b>SRO: 29</b> <b>PHX: 28</b>	Compliance NRO = As needed SRO = As needed PHX = As needed
	10) Compare and review facility information provided on Self-Monitoring Report Forms with state water quality protection database information (WCET)	T = 200 <b>A = 720</b>	Compliance
PPG	11) Issue Administrative Orders and track schedules.	T = As needed <b>A = 6</b>	Compliance
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable 1: A monthly average of 280 drywells were registered during FY 08; wells were evaluated and the database maintained throughout FY 08. Deliverable 2: The Section met with EPA on 2/17/08 and continues to communicate groundwater related issues. Deliverable 3: A quarterly average of 1293 NOTs were processed during FY 08.			

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #4400: Underground Water Regulation</b>	
<b>Objective #2: Reduce pollutant loading to groundwater.</b>		<b>Program #4500: Surface Water Regulation</b>	
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.2.1</b>	<b>TASK: Groundwater Protection – Permits, Compliance and Enforcement (Cont'd)</b>  <b>DELIVERABLES:</b>		

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GF	110.92	426,309
GF (NRO	22.28	98,174
GF (SRO)	15.12	60,662
ST PPG	10.00	25,946
GF SPEC AZPDES	16.00	56,901
GF SPEC AZPDES ST PPG	19.00	73,207
GF APP	146.04	580,989
WQFF (SRO)	13.44	58,587
WQFF	467.16	1,841,533
NPS IX	12.00	39,678
PPG	55.52	208,874
PPG (SRO)	4.08	19,233
<b>TOTAL</b>	<b>891.56</b>	<b>3,490,093</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #2: Reduce pollutant loading to groundwater.		Program # 4400: Underground Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.2.2	<b>TASK: Groundwater Monitoring</b>  Carry out state and federal mandates to monitor and report on groundwater quality conditions and contamination problems statewide.  <b>DELIVERABLES:</b>		
	1) Complete groundwater basins reports for: a) Hualapai GW Basin b) Pinal AMA GW Basin	T = a) 12/07           A = <b>12/07</b> b) 6/08           A = <b>6/08</b>	Surface Water
PPG	2) Input/retrieve groundwater quality data into the GWQDB.	T = 12,000 records/year <b>Comment</b>	Surface Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> Deliverable 2: There were 1476 records entered and 27 requests for data in the 4 <sup>th</sup> quarter. A total of 5,711 records were entered and 95 data requests processed for FY 08. The total number of records entered into the database is lower due to number of samples collected this year. All data collected for this groundwater program and the pesticide program during FY 08 have been entered.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
WQARF	8.00	34,794
PPG	12.00	36,134
TOTAL	20.00	70,928

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.1	<b>TASK: Arizona Pollutant Discharge Elimination System (AZPDES)</b>  Carry out federal and state statutory requirements of Arizona National Pollutant Discharge Elimination System program.  <b>DELIVERABLES:</b>		
PPG	1) Process AZPDES permit actions including issuance, modifications, denial, suspension, or revocation. Report status of permit processing quarterly.	T = Quarterly <b>Comment</b>	Surface Water
PPG	2) Process permit renewals for all expiring AZPDES permits with a goal to minimize 'backlog.' Report status of permit renewals quarterly.	T = Quarterly <b>Comment</b>	Surface Water
PPG	3) Issue general AZPDES permit for stormwater discharges associated with industrial activity.	T = 6/30/08 <b>Comment</b>	Surface Water
	4) Issue six individual phase I MS4 permits.	T = 6/30/08 <b>Comment</b>	Surface Water
	5) Prepare state certification letters for EPA drafted permits under §401 (a) (2).	T = As needed <b>Done</b>	Surface Water
	6) Process NOIs, NOTs, waivers, for AZPDES general permits including review of SWPPPs for discharges to unique or impaired waters.	T = Ongoing <b>Comment</b>	Surface Water
	7) Develop general permit for sludge-only facilities.	T = 6/30/08 <b>Comment</b>	Surface Water
	8) Complete initial review of all SWMPs submitted by small MS4s.	T = 6/30/08 <b>A = 4/03/08</b>	Surface Water
	9) Reissue AZPDES Construction General Permit	T = 2/28/08 <b>A = 2/28/08</b>	Surface Water
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable #1, a total of 45 individual permits were issued in FY08. Of these, 31 were renewals and 14 were new. In addition, 2 major modifications were completed. Deliverable #2; there are 8 AZPDES permits in process that are 6 months or more past the expiration date. See the backlog table below for details on the status of the 8 backlogged permits. Deliverable #3; not met, anticipating reissuance of EPA multi-sector general permit. This deliverable will continue in FY 09 workplan. Deliverable #4; two MS4 permits (ADOT and Phoenix) went to public notice in June 2008. Work is ongoing to develop other MS4 drafts. Deliverable #6; issued over 7,000 letters for projects with 2003 CGP coverage. Processed over 2,000 Stormwater Construction NOIs for coverage under the 2008 CGP and 3,600 NOTs terminating coverage under the 2003 CGP. Conducted 8 outreach presentations covering the 2008 CGP to cities, special interest groups, and trade organizations. Updated and deployed ADEQ's SMART NOI system. Also, 278 De minimus NOIs were approved and 90 No Exposure forms for the MSGP were processed in FY08. See chart that follows for General Permit totals. Deliverable #7 was not met; moved to lower priority due to staff constraints and other permitting priorities. Deliverable #8; Initial review of all SWMPs completed as of April 3, 2008; 35 of 41 SWMPs are approved. Working with/pursuing Phase IIs with inadequate SWMPs.			

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.1	TASK: Arizona Pollutant Discharge Elimination System (AZPDES) (Cont'd)  DELIVERABLES:		

FTE FUNDING SOURCE	MONTHS	AMOUNT
GF/AZPDES	35.76	134,309
GF SPEC AZPDES	128.00	483,726
ST SPEC AZPDES PPG	24.00	66,726
PPG AZPDES	53.54	182,142
TOTAL	241.30	866,903

# FY08 4th QUARTER FINAL OUTPUT REPORT

## AZPDES Project Status- 6/30/08 AZPDES Renewal Permits for 7/1/07-6/30/08

AZPDES Renewal Permits								
Permittee	AZP DES # AZ-	Type	Permit Exp date	Date appl. Due	date App Rec	LTF Number	Pro j Mgr	
APS- Cholla Power Plant	23311	Min	8/12/2003	rec. 2/12/03		NA	DD	Awaiting Lake Mgt. Study plan. Def. Ltr. Sent 9/29/03. <b>On hold for triennial review.</b>
Arizona City Sanitary District	24244	maj	12/29/2006	6/29/2006	7/21/2006	41244	JB	<b>Signed 9/26/07; Eff 11/1/27; Exp 11/1/12.</b>
Asarco Mission	24597	min	4/1/2008	10/1/2007	9/28/2007	45883	MG	Adm Def Ltr sent 11/6/07. Response rec'd 12/19/07, application is administratively complete. Substantive Def ltr sent 2/4/08. External Review 6/16/08
Asarco Ray	35	Maj	5/19/2008	11/19/2007	11/23/2007	46274	MG	Adm Def Ltr 12/24/07. Site visit 2/7/08. Sub. Def Ltr 2/27/08. Permit being drafted.
Avondale	23281	Maj	12/31/2007	6/30/2007	7/6/2007	44938	SF	Adm Def letter sent 8/10/07 208 review received 1/30/08. Substantive Def ltr sent 2/5/08. Response received 3/13/08. External Rev 4/7/08. PN 5/22/08. Routing for signature.
Bensch Ranch	AZ002 4813	min	8/25/2007	2/14/2007	2/15/2007	LTF # 43322	JM	<b>Signed 9/13/07; Eff 10/10/07; Exp 10/18/12</b>
Canyon Lake Marina	21440	min	11/10/2006	5/10/2006	10/9/2006	42100	RA	Public Notice 2/28/08 <b>Routed for Signature 3/31/08 Signed 4/4/08; eff 4/4/08; Exp 4/4/13</b>
Casa Grande	25178	Maj	12/29/2009	6/29/2009	1/18/2008	46631	SM	Adm Def Ltr sent 1/30/08. Response rec 2/14/08. Exteranal rev. 3/17/08. PN 5/8/08. PN comments require changes to the permit. Issuance on hold.
Central & camelback WQARF Site	AZ002 4848	min	8/14/2007	3/6/2007	3/6/2007	43521	JB	Public Notice 1/3/08. <b>Signed and eff 2/20/08; Expires 2/20/13</b>
Entrada del Oro	24899	min	6/28/2007	12/28/2006	11/6/2006	42423	SF	Public Notice 7/5/07 <b>Signed 8/15/07; eff 8/15/07; Exp 8/15/13</b>
Estates at Pine Canyon	AZ002 4902	min	12/19/2007	6/19/2007	6/20/2007	44807	JH	Public Notice 11/8/07 <b>Signed 12/19/07; Eff 1/23/08; Exp 1/23/12</b>
Flagstaff Meadows	24708	Min	6/9/2006	12/13/2005	12/9/2005	<b>LTF# 38565 suspended</b>	JPM	Public Notice 2/28/08. <b>Signed 6/19/08; Eff 7/24/08; Exp 7/24/13</b>
Gambel Quail	AZ002 3965 AZ002 5604	min	12/31/2006	6/30/2006	<b>Rec 5/18/07</b>	<b>LTF# 44347</b>	<b>JM</b>	Issued PN to deny 9/19/07. <b>Denied 12/4/07/</b>
Globe, City of	20249	Maj	1/29/2007	7/29/2006	7/31/2006	41281	JM	<b>Signed and eff 7/12/07, expires 7/12/10</b>
Goodyear City of, 157th Ave	22357 Mod	Maj	NA	NA	NA	47249	JM	PN 5/1/08. <b>Signed 6/3/08</b>
Houston Creek Landing	25305	min	5/26/2008	11/26/2007	11/30/2007	46278 10/15/08	RA	PN 4/22/08. <b>Signed 6/2/08; Eff 6/2/08; Exp 6/2/13.</b>
Jerome	21804	min	10/6/2007	4/5/2007	4/6/2007	43899 5/22/08	JM	Public Notice 9/14/07. <b>Signed 10/23/07; eff 10/23/07; exp 10/23/12</b>



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Katherine Landing	23523	min	9/30/2008	3/30/2008	2/15/2008	46897	RC	PN 5/8/09. <b>Signed 6/14/08; Eff 7/21/08: Exp 7/21/11.</b>
Mesa, City of NW WRF	24031	maj	08/18/08	2/29/08	2/28/2008	46906	RA	Adm Def ltr sent 4/10/08. External Review 6/30/08.
Mountain Pass	24775	Min	1/11/2007	7/1/2006	6/21/2006	40767	LW	<b>Signed 12/06/04; Effec 1/10/08; Exp 1/10/13</b>
Nogales WWTP	25607	Maj	7/1/2006	12/31/05	3/27/2006	39800		Public Noticed 6/22/07. Public Notice extended 7/20/07 to 9/20/07. <b>Signed 11/19/07; Eff 12/24/07 Exp 12/24/12</b>
One Camelback	23868	Min	12/2/2006	6/02/06	9/18/2006	41889	JM	Public Notice 9/6/07 <b>Signed 11/16/07; Eff 12/21/07; Exp 12/21/12</b>
Oracle Sanitary District	20681	Min	6/16/2007	12/16/06	12/28/2006	43168	JB	<b>Signed 9/11/07; Eff 9/11/07; exp 9/11/12</b>
Palo Verde Utilities I	25071	Maj	11/17/2008	5/17/2008	11/2/2007	46128	MG	Adm Def sent 11/29/07. Response received 12/21/07, Incomplete Response letter sent 12/27/07 - Selenium Evaluation received 2/4/08. Substantive Def sent 3/7/08. Preliminary approval received 7/2/08. Permit being drafted.
Phoenix, Cave Creek	24465	Maj	1/23/2005	7/20/2004	3/16/2006	33524	DN IC JB	Ext. rev. 9/7/05 for 30 days. Responding to comments PN Oct 26, 2006 Routing for signature Dec 26, 2006 Signature process suspended until further meetings. <b>Next Action: receive compliance schedule proposal from City of Phoenix.</b>
Phoenix 23rd Ave	20559	maj	10/25/2008	04/25/08	4/28/2008		JM	Adm Def Ltr sent 5/14/08. Response received 6/26/08.
Phoenix Val Vista WTP	23442	Maj	10/19/2007	4/29/07	5/3/2007	44197	JH	<b>Public Notice 1/3/08 Signed 2/12/08; Eff 3/18/08;Exp 3/18/13</b>
Phoenix 24th St WTP	23426		1/16/2008	7/16/2007	7/20/2007	45118	SF	PN 3/13/08 <b>Signed 4/14/08; eff 5/19/08; Exp 5/19/13</b>
Phoenix Deer Valley WTP	23434	Maj	11/28/2007	06/2/07	6/1/2007	44560	JH	PN 1/31/08 <b>Signed 3/13/08; Eff 4/17/08; Exp 4/17/13</b>
Pima County-Avra valley WWTP		Maj	8/22/2008	2/22/2008	12/14/2007	46366	EED	Adm Def letter sent 12/27/07. Sub def 4/22/08. External review 7/7/08.
Pinal Creek WTP	24350	min	11/30/2008	5/30/2008	6/2/2008	47796	EED	In administrative review.
Pinto Valley BHP	20401	Maj	8/25/2007	12/4/2006	249	42698	EED	Adm Def letter sent 1/4/07 External Rev 7/17/07. Changed application. Revised application submitted Oct 08. Second external review 3/13/08. PN 5/12/08. Responding to comment.
Phoenix, 91 <sup>st</sup> St. Ave	20524	Maj	12/31/03	6/31/03	7/7/2003	30385		Ext. Rev 1/06. Responding to comments. PN 12/07/06 Due to comments received from GRIC permit EPA is completing the permit process.
Phelps Dodge-Bagdad	22268	Maj	12/4/2006	Due 6/4/06	6/21/2006	40757	IC	<b>Signed 12/28/07; Eff 02/1/08; Exp 2/1/13</b>
Phelps Dodge-Iron King	24546	Maj	12/13/2006	6/13/2006	6/13/2006	40662	IC	Public Notice 12/19/07. <b>Signed 2/27/08 ;eff 4/2/08; Esp 4/2/13</b>
Pine Meadows	24783	min	3/8/2007	Due 09/07/06	8/7/2006	41347	DN JM	Admin def letter 9/21/06 and a response was received 11/7/06. Substantive Def 2/16/07 Response to Substan Def Ltr asking for variances for phosphorus and nitrogen due 5/17/07. Incomplete Response ltr sent citing EPA web page and 20 forms needed. Response due 7/20/07. Rec'd Worksheets and sent to EPA for review 9/28/07. Variance denied due to TMDL issues. Permit being drafted without variance.

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Queen Valley Sanitary District	22071	min	12/19/2007	Due 6/19/07 Received	6/21/2007		SF	Withdrew
Resolution Copper Superior	20389	Maj	11/7/2005	5/7/05	4/28/2005	36217	IC JB	adm def ltr 5/18/05 w 90 day resp. time. To ext. rev. 1/17/06. <b>PN May 31, 2006 New data received through PN waiting for revised application. Def Letter for new application 2/20/07 and received response.</b> Sent an Incomplete Response Ltr on 6/6/07. Wait for response and schedule a meeting to discuss permit difficulties. Applicant requested removal of Outfall 002. Permit is being revised for stormwater discharges only. Second Public Notice 3/18/08. Changed application agreement 6/16/08. Waiting for revised application.
Rock Springs Chevron	25046	min	10/24/2008	4/24/2008	2/25/2008	46902	-	<b>Signed 6/24/08; Eff 6/24/08; Exp 6/24/13.</b>
Phoenix – Rio Salado	24554	min	2/16/2007	Mod/ 3/15/06	3/15/06	39613	RA	Public notice 8/23/07. <b>Signed 11/20/07; Eff 12/26/07; Exp 12/26/12</b>
Roosevelt Lake	23787	min	9/4/2006	3/4/2006	3/15/2006	39614	RA	Public Notice 10/3/07. <b>Signed 12/18/07; eff 12/18/07; Exp 12/18/12/</b>
Saddlebrooke WWTP	22853	M	9/29/2005	Due 3/29/05	3/22/2005	35884	ILC	<b>Next action</b> to PN 11/4/05. 15 DAY EXT. NOTICED ON 12/6/05. 3rd PN sent 3/20/07. Response to PN comments written and meeting with owner May 5/19/07. <b>SIGNED 9/4/07; Eff 10/9/07; Expires 10/9/12</b>
Safford	24911	Maj	5/12/2008	11/12/2007	11/13/2007	46154	SM	PN 3/26/08. <b>Signed 5/5/08; Eff 5/5/08; Exp 5/5/13</b>
SRP- Kyrene Generating Station	23540	Maj	8/27/2007	Due 2/7/07	3/1/2007	43519	RA JM	PN 2/28/08. <b>Signed 4/18/08; Eff 5/23/08; Exp 5/23/13</b>
SRP Santan	23558	Maj	5/31/2007	11/29/2006	11/29/2007	42779	RA Contract	Public Notice 10/4/07. <b>Signed 11/9/07; Eff 12/14/07; Exp 12/14/12</b>
SRP- K-7	24791	Maj	1/17/2007	7/17/2006		41103	RA	Public Notice on 7/5/07 Signed 8/24/07; Eff 9/28/07; Exp 9/28/12
Safford	24911	Maj	5/12/2008	11/12/2007	11/13/2007	46154	SM	PN 3/26/08. <b>Signed 5/5/08; Eff 5/5/08; Exp 5/5/13</b>
SRP- Kyrene Generating Station	23540	M	8/27/2007	Due 2/7/07	3/1/2007	43519	RA JM	PN 2/28/08. <b>Signed 4/18/08; Eff 5/23/08; Exp 5/23/13</b>
Town of Superior WWTP	21199	Min	1/11/07		1/11/2007	43059	JM	<b>PN 9/26 - 10/29/07. Signed 11/06/07</b>
Tucson Electric Co-North Loop Generating Station	24821	min	9/20/2007	3/20/2007	3/20/2007	43715	RA/JM	Requested additional sampling data. <b>On hold till the facility is able to get samples once it is operational again this spring/summer</b>
Winkelman	20176	min	12/31/2008	6/30/2008	5/20/2008	47663	SM	Adm def ltr sent 6/3/08, response received 6/23/08.
Phase I MS4s Phoenix Glendale Scottsdale ADOT Tempe Mesa Tucson Pima County					N/A			All expired & administratively continued. Working on draft for Phoenix. Phoenix Draft sent to EPA 6/1/06. Draft permit and fact sheet for ADOT and Phoenix in MS4 PN 06/08.

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Backlogged Permits		
The following 8 permits from the renewal permits table above are more than 6 months past their expiration date		
<b>Avondale</b>	<b>Routing for signature</b>	
<b>BHP Pinto Valley</b>	<b>2<sup>nd</sup> changed application agreement 6/16/08.</b>	<b>Applicant requested inclusion of a second outfall during the 2<sup>nd</sup> Public notice. A new applications required.</b>
<b>Cholla</b>		<b>Has been on hold waiting for the triennial review.</b>
<b>City of Phoenix Cave Creek</b>	<b>Out of Public Notice</b>	<b>On hold while TRE completed and resolution of action related to toxicity</b>
<b>City of Phoenix 91<sup>st</sup> Ave</b>	<b>Out of Public Notice</b>	<b>On hold since PN in Dec 06. Gila River Indian community comments identified a boundary controversy affecting ADEQ's authority to issue the permit. Permit has been sent to EPA for finalization.</b>
<b>Pine Meadows WWTP</b>	<b>Ready for preliminary review</b>	<b>TMDL issues. Draft permit requires discharge to meet the nitrogen and Phosphorous standards.</b>
<b>Resolution Copper</b>	<b>Comments on Public Notice indicated additional treatment was needed. New application required. Revised permit in Public Notice. 2<sup>nd</sup> public notice ended in May 08. Applicant requested inclusion of 2<sup>nd</sup> outfall. 2<sup>nd</sup> new application required.</b>	<b>Applicant amended application &amp; eliminated mine dewatering discharge. Public Notice published to end in 4/08. Expected to issue in May 08. However, now waiting for 2<sup>nd</sup> revised application to include outfall removed in previous revised application.</b>
<b>Tucson Electric North Loop</b>	<b>Preliminary review compete</b>	<b>Additional sampling required. Plant only operates in summer so sampling could not be done immediately.</b>

## NEW AZPDES PERMIT APPLICATIONS

Applicant	NPDES No. AZ-----	Type	Date Received		LTF DATE	Proj Mgr	Permit Status
Amaranth, Section 23 WRF, City of Goodyear	25721	min 0.6 mgd	10/16/2007		45884	SM	Adm def ltr 11/2/07. On hold for 208 amendment. External review 3/21/08, but 208 still not complete. PN 5/22/08. Ready for signature pending 208.
Anthem Water line (City of Phoenix)	25615	min	5/1/2006		40181	LW	<b>Subst Def ltr. 4/10/07. Withdrawn 9/18/07</b>
Atterbury Wash, now called Lincoln Park	24392	Min	New		N/A (old)	WM	<b>Next action:</b> Response to comments 6/11/04 Tucson Water requested a meeting with ADEQ to discuss issues. <b>Meeting held 9/23/04; has been inactive since.</b>
Balterra	25585	Min	4/28/2006		39602	SF	Adm Def Ltr sent 4/28/06 208 inconsistent. External review Oct/9/07. <b>Public Notice 11/8/07 Signed 12/12/07; Eff 12/12/07; Exp 12/12/12</b>
Buckeye, Palo Verde Road	25500	Maj	12/15/2005		38677 10/2/07	MP-LW	PN 6/7/07. LTF extension signed. <b>Signed 9/19/07; Eff 10/24/07; Exp 10/24/12</b>
Buckeye Sun Valley South	25691	Maj	12/5/2007		237 days 43084	SF	Public Notice 8/7/07 <b>Signed 9/11/07; Eff 9/11/07: Expired 9/11/12</b>
Cave Creek, Town of	25763 aka 24074	Min	11/30/2007		10/17/08 46284	RC	PN 3/6/08 <b>Signed 4/14/08; Eff 4/14/08; Exp 4/14/13</b>
Garney Construction (Buckeye WWTP Expansion)	25551	Min			0 39072 5/9/07	LW	Public Notice Jan 08. <b>Signed 3/26/08; eff 4/30/08; Exp 3/26/13</b>
Eden Organics	25496	MIN	12/12/2005		0 38620	DN	<b>Next Action:</b> Response to Adm Def 6/5/06. Sub Def ltr sent 11/24/06. Inc response ltr sent 2/20/07. Response received. <i>Permit drafting on hold pending APP hearing issues.</i>
Glen Canyon Dam USDI BOR	25666	min	11/22/2006		42566	RA	For sump discharge. PN 10/3/07. <b>Signed 11/7/07; Eff 11/7/07; Exp 11/7/11.</b>
Hassayampa Ranch RF	254553	maj	10/13/2005		249 days 37904	MP-JM	PN 4/10/08. <b>Signed 5/16/08; Eff 6/20/08; Exp 6/20/13.</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

JRC Goodyear	25747	min	12/31/2007		46121	JM	Was AZ0000108. External review 1/9/08. <b>Signed 3/14/08; eff 3/14/08; Exp 3/14/13</b>
Mogollon Domestic Wastewater Improvement District	25739	min	New		46149	RC	PN 2/29/08. <b>Signed 4/4/08; Eff 4/4/08; Exp 4/4/13</b>
NIBW Superfund Remediation	24210 25178	min	5/9/2003		N/A	RC	To PN 7/15/04 Applicant wouldn't accept draft claimed; CERCLA exemption. Discussions reinitiated with superfund staff at EPA /SDEQ in Spring, 2008.
Palm Valley	25712	maj	New		45829	RC	PN 5/22/08. 208 consistency on 6/20/08. Permit being routed for signature.
PCL Construction UP01 Expansion	25674	min	12/1/2006		42796 11/27/ 2007	JH	PN 8/24/07 <b>Signed 10/5/07; Eff 10/5/07; Exp 10/5/12</b>
Pecan WRP	25445	Maj				jpm	Public Notice 9/13 - 10/15/07. <b>Signed 10/25/07; Eff 10/25/07; Exp 10/25/12</b>
Phoenix Zoo	25488	Min	12/7/2005			JPM	Admin Rev Quarterly reports coming in on sewer hook-up progress. Sewer hookup complete. No permit required.
Pima County- Agua Caliente Park	25330	Min	10/5/2004		1/11/2 007 34174 0	LW	PN 4/4/07. <b>Signed and eff 8/1/2007. Expires 8/1/2012</b>
Sahuarita WWTP	25682	Maj	12/11/2006		267 days 42813	JM	Adm Def ltr sent 1/5/07 and <b>208 issue still outstanding.</b>
Show Low Mountain Ranch	25780	Min			47426	SF	Adm Def ltr sent 5/16/08. Awaiting Response.
Tempe Town Lake ** carryover	24490		7/14/1999		N/A	JB	*EPA drafted & to ADEQ for review/ AZPDES revision. Modifications received from applicant.
City of Willcox	25771	min	5/30/2008		46903	JM	Issued new permit number. Previous permit number was AZ0024830. Adm Def ltr 3/4/08. External rev 4/11/08
City of Williams- New Plant	25755		10/31/2007		46115	JM	PN 2/28/08. <b>Signed 4/28/08; Eff 6/2/08; Exp 6/2/13</b>
Yakima	25526	Min	Rec 1/31/05??		0 days	JB	Comp. Request for Add. Info. 1/23/06. Continue w/ writing permit.
Weaver Mountain WWTP	25631	new	9/1/2006		41669	JB	<b>On hold for 208</b>
							Signed 1st Quarter 08
							Signed 2nd Quarter 08
							Signed 3rd Quarter 08
							Signed 4th Quarter 08

General Permits	
FY08	Total in Universe
Construction General Permit	8,558
CGP Waivers	482
Multi-Sector, general permit (administratively continued)	1,020
MSGP – No Exposures	338
Deminimus General Permit	278

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.2	<b>TASK: CWA 401 Certification of CWA 404 Permits, NEPA Document Review &amp; Other Individual Certifications</b>  Conduct CWA §401 Certification program to ensure surface water quality standards are met.  <b>DELIVERABLES:</b>		
PPG	1) Review and issue CWA §401 certification for ACOE 404 Nation-Wide Regional General Permit.	T = As needed <b>Complete</b>	Surface Water
PPG	2) Review and issue CWA §401 certification for ACOE 404 individual Permits	T = As needed <b>Comment</b>	Surface Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> Deliverable #1; completed May 14 <sup>th</sup> , 2008. Deliverable #2: In the 4 <sup>th</sup> quarter we completed three individual 401 certifications; six nationwide permits and four certification modifications. In FY08 a total of 20 individual certifications, 21 NWP Individual certifications, 11 modifications and 10 Waiver of Individual certifications were processed.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
PPG	12.00	45,980

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #'s: 4500: Surface Water Regulation 4400: Underground Water Regulation</b>	
<b>Objective #3:</b> Reduce pollutant loading to surface water.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.3</b>	<b>TASK: Surface Water Compliance and Enforcement</b>  Conduct site inspections of known regulated facilities. All inspections will yield a determination of compliance as required by the permit and applicable rule. Field notes and photographs will support findings and conclusions identified in final inspection report. Inspections will also include random field sampling as necessary to ensure compliance with discharge limits.  Evaluate, prepare and take informal and formal enforcement actions for violations of water quality statutes, rules and permit conditions and federal CWA statutes, rules and permit conditions.  <b>DELIVERABLES:</b>		
PPG	1) Perform compliance inspections of point source facilities. Inspect annually all major NPDES facilities that are operational. NPDES inspection reports will encompass applicable activities as described by Section 3-7 of the NPDES Compliance Inspection Manual (EPA 300 – B-94-014)	T = 64 <b>NRO: 10 SRO: 13 PHX: 40</b>	A = <b>63</b> Compliance NRO = SRO = PHX =
PPG	2) Perform scheduled compliance inspections of NPDES minor point source facilities. Inspect all minor NPDES facilities on a four-year cycle. NPDES inspection reports will encompass applicable activities as described by Section 3-7 of the NPDES Compliance Inspection Manual (EPA 300-B-94-014).	T = 27 <b>NRO: 28 SRO: 15 PHX: 25</b>	A = <b>68</b> Compliance NRO = SRO = PHX =
	3) Target watersheds or sectors in each of the following priority watershed areas and conduct inspections of permitted and non-permitted sites: Middle Gila and Salt River.	T = Determined during quarterly status meetings  <b>Done</b>	Compliance NRO = As needed SRO = As needed PHX = As needed

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #'s: 4500: Surface Water Regulation 4400: Underground Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.3	<b>TASK: Surface Water Compliance and Enforcement (Cont.d)</b>  <b>DELIVERABLES:</b>		
PPG	4) a) Conduct inspections of stormwater facilities subject to general permitting requirements. i) Industrial  ii) Construction  b) Report number and percent of facilities inspected that are covered under the general construction and industrial stormwater AZPDES permits. c) Conduct audit of MS4 facilities	i) T = 74 <b>NRO: 11</b> <b>SRO: 29</b> <b>PHX: 64</b>  ii) T = 76 <b>NRO: 29</b> <b>SRO: 49</b> <b>PHX: 188</b>  b) T = Annually <b>Done</b>  c) T = 1 <b>A = 0</b>	Compliance  NRO = 17 SRO = 17 PHX = 40  NRO = 18 SRO = 18 PHX = 40  PHX = As needed
	5) Perform inspections of CAFO/AFO facilities (permitted and unpermitted).	T = 40 <b>A = 40</b>	Compliance PHX = 40
	6) Perform compliance inspections of biosolids facilities (wastewater treatment plants, land application sites, composting facilities). Review annual reports submitted under biosolids rule.	T = 24 <b>A = 24</b>	Compliance PHX = 24
	7) Provide outreach assistance in biosolids	T = As needed <b>A = 6</b>	Compliance
PPG	8) Perform pretreatment audits or inspections. *(1) a) Pretreatment audit for the City of Tolleson b) Review of City of Yuma’s draft local limits analysis. c) Review pretreatment implementation in the Prescott area. Specifically, inspect the Town of Prescott Valley and the City of Prescott for the presence of categorical dischargers and the need for pretreatment programs. d) Pretreatment audit for the City of Chandler. e) Pretreatment audit for the City of Mesa.	T = 6/30/08 <b>A = 6/30/08</b>	Compliance
	9) Investigate complaints relating to Clean Water Act.	T = As needed <b>A = 147</b>	Compliance
	10) Compare and review facility information provided on discharge monitoring report forms with state water quality protection database information (WCET)	T = 200 <b>A = 249</b>	Compliance

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #'s: 4500: Surface Water Regulation 4400: Underground Water Regulation</b>	
<b>Objective #3:</b> Reduce pollutant loading to surface water.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.3</b>	<b>TASK: Surface Water Compliance and Enforcement (Cont'd)</b>  <b>DELIVERABLES:</b>		
PPG	11) Enter discharge monitoring report data into PCS within 20 days of receipt of the discharge monitoring report (DMR).	T = As needed <b>A = 800</b>	Compliance
PPG	12) Enter NPDES information into PCS within 45 days of all AZPDES inspections (major, minor, biosolids, CAFOs and stormwater).	T = As needed <b>A = 133</b>	Compliance
PPG	13) Perform quarterly quality control of PCS data to identify missing or incorrect data.	T = 4 <b>A = 4</b>	Compliance
PPG	14) Prepare a quarterly enforcement report to EPA which includes all informal and formal actions for AZPDES facilities. Respond to EPA’s watch list within 21 days of receipt. Schedule: - 5/28/07 - 9/03/07 - 12/03/07 - 3/03/08	T = Quarterly <b>A = 2</b>	Compliance
PPG	15) Maintain periodic data transfers from WCET to PCS.	T = As scheduled <b>Done</b>	Compliance
PPG	16) Coordinate with EPA R9 the input of minor source NPDES compliance information into WCET and produce a QNVR report.	T = Quarterly <b>A = 4</b>	Compliance
PPG	17) Issue Administrative Orders and track schedules.	T = As needed <b>A = 1</b>	Compliance
PPG	18) Hold meetings and/or conference calls with EPA to discuss timely and appropriate CWA enforcement.*(2) Document agreement on discussed items on follow up actions. Provide list of cases monthly. One call each quarter will be devoted to discussing the QNCR/QNVR list and the details of actions taken on each SNC on the QNVR list.	T =12 <b>A = 4</b>	Compliance



## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #'s: 4500: Surface Water Regulation 4400: Underground Water Regulation</b>	
<b>Objective #3:</b> Reduce pollutant loading to surface water.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.3</b>	<b>TASK: Surface Water Compliance and Enforcement (Cont'd)</b>  <b>DELIVERABLES:</b>		
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable 1: One AZPDES major facility was inadvertently omitted from inspection, or otherwise listed as an inspection of a minor facility. Deliverable 4c: ADEQ plans to accompany EPA on an audit that was rescheduled until late July 2008. Deliverable 14: ADEQ is still working on getting Enforcement Reports on a quarterly basis by improving its tracking of cases into FY09. Deliverable 18: Although the Workplan still reflects monthly meetings, EPA CWA staff and ADEQ staff agreed prior to FY08 to conduct meetings on quarterly basis, which was accomplished.			

**FOOTNOTES:**

\*(1) These deliverables to be performed using EPA contractor support.

\*(2) EPA's policy defines "timely" enforcement as formal enforcement taken against a facility in significant non-compliance ("SNC") within 5 months of that facility's first appearance on a Quarterly Non-Compliance Report ("QNCR"). Formal enforcement is defined by EPA as an administrative order or civil action that requires the facility to return to compliance. EPA will consider taking formal enforcement action against SNC facilities if ADEQ does not issue a timely formal enforcement action.

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GF	13.96	59,098
GF (NRO)	23.76	100,926
GF (SRO)	17.70	72,062
ST PPG	6.80	20,056
GF/AZPDES	14.38	58,248
GF/AZPDES (SRO)	13.08	58,554
GF/AZPDES (NRO)	25.08	109,092
GF/AZPDES ST PPG	15.20	45,474
GF SPEC AZPDES	28.00	104,493
GF SPEC AZPDES ST PPG	6.00	24,588
WQFF	30.44	100,251
PPG	23.32	74,078
PPG (SRO)	4.92	22,922
PPG (NRO)	3.00	18,120
PPG-AZPDES (SRO)	6.00	27,665
PPG-AZPDES (NRO)	24.60	115,198
PPG-AZPDES	38.60	133,147
<b>TOTAL</b>	<b>294.84</b>	<b>1,143,972</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.4	<b>TASK: Regional Water Quality Management Planning</b>  Carry out state and federal statutory and rules requirements of regional Water Quality Management Planning Program (CWA 208 Program).  <b>DELIVERABLES:</b>		
604(b) X	1) WQM Plan Amendments a) Technical assistance to regional planning agencies and regulated community b) Review and process amendments	T = As needed <b>Comment</b>	Surface Water
604(b) X	2) 208 Consistency Reviews a) Technical assistance to regional planning agencies and regulated community b) Determine 208 conformance	T = As needed <b>Comment</b>	Surface Water
PPG	3) Revise Continuing Planning Process Document	T = 6/08 <b>Comment</b>	Surface Water
PPG	4) Develop GIS covers for planning and service areas.	T = 9/07 <b>A = 6/08</b>	Surface Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> Deliverable #1; ten amendments were reviewed and completed the 208 process. Deliverable #2; 91 208 reviews were completed. Deliverable #3 not met; CPP will be scheduled for FY09 as workload allows. Deliverable #4: Project was delayed due to the constraint of staff resources.			

*Note: 40% of the total 604(b) funding is passed through in contracts to designated planning agencies.*

FTE FUNDING SOURCE	MONTHS	AMOUNT
PPG	20.00	57,748
604(B) X	10.00	35,045
TOTAL	30.00	92,793

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.5	<b>TASK: Surface Water Program Development, Rules and Standards</b>  Perform program development support activities for surface water program including development of water quality standards, including implementation procedures, under Section 303 of the Clean Water Act, other rule development activities and program policies/procedures.  <b>DELIVERABLES:</b>		
PPG	1) Complete triennial review of surface water quality standards. a) Submit rule proposal to EPA b) File final rule with Secretary of State and complete triennial review of surface water quality standards at state level.	T = <b>Comment</b>  a) 5/07 b) 12/07	Surface Water
NPS VIII NPS IX	2) Adopt narrative standards and implementation procedures as part of Triennial Review process for: a) Narrative nutrients in lakes and reservoirs b) Narrative bottom deposits c) Narrative biocriterion. d) Antidegradation	T = 12/07 <b>Comment</b>	Surface Water
	3) Develop narrative nutrient criteria workplan for Arizona for streams and rivers.	T = 6/08 <b>Comment</b>	Surface Water
	4) Complete revisions to Impaired Waters Identification Rule a) Proposed rules to EPA b) File final rule with Secretary of State	T = <b>Comment</b>  a) 5/07 b) 12/07	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.5	TASK: Surface Water Program Development, Rules and Standards (Cont'd)  DELIVERABLES:		
EXCEPTION REPORT COMMENTS			
<b>4TH QTR:</b> Deliverable #1 not met; Notice of Proposed Rulemaking re-published April 25, 2008, due to publishing error by Secretary of State. Public meetings held on June 4, 2008 and June 19, 2008. ADEQ is currently drafting response to public comments and preparing Notice of Final Rulemaking for submittal to Governor's Regulatory Review Council. Target date for filing final rule with Secretary of State and completing triennial review at state level is December 2008. Deliverable #2 not met; final drafts of all four IP documents published April 2008. Target Date for completing IP documents 2(a-d) is December 2008. Deliverable #3 not met due to staff shortages and demands of triennial review; IWIR rules and integrated report on hold. Deliverable #4 not met; rules workgroup has reinitiated IWIR revisions. Regulatory development delayed by triennial review and delay in completing consolidated 2006-2008 305(b) and 303(d) integrated Report. New target to file proposed IWIR rules is October 2008.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
ST PPG	7.00	31,149
ST NPS IX	7.00	26,033
WQARF PPG	9.00	38,019
PPG	11.00	40,591
NPS VIII	4.00	13,887
NPS IX	3.00	11,974
GF/SPEC AZPDES	4.00	17,606
TOTAL	45.00	179,259

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.6	<b>TASK: Ambient Monitoring Program</b>  Ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants.  <b>DELIVERABLES:</b>		
PPG	1) Conduct ambient stream monitoring per FY 08 sampling and analysis plan. Monitoring to include targeted and probalistic basin characterization sites and planning list sites in support of 305(b) assessment process.	T = Quarterly      A = 4	Surface Water/SRO
	2) Prepare FY 09 sampling and analysis plan for rivers and streams	T = 5/08      T = 5/08	Surface Water
106 Mon.	3) Conduct ambient lake monitoring per FY 08 sampling and analysis plan. Monitoring to include watershed characterization and planning list sites in support of 305(b) water quality assessment process.	T =Quarterly      A = 4	Surface Water
NPS VIII	4) Prepare FY 09 sampling and analysis plan for lakes and reservoirs	T =5/08      T = 5/08	Surface Water
NPS IX	5) Conduct fish tissue and sediment sampling program on Arizona lakes and reservoirs for presence of mercury, pesticides or other PBTs to support TMDL and fish consumption advisory programs.	T = 6/08      A = 6/08	Surface Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> All deliverables were met. Stream and lake samples were collected in accordance with FY08 sample plans. FY09 sample plans for lakes and streams were prepared on time. See following table for fish samples analyzed under the fish consumption advisory program.			

## FY08 4th QUARTER FINAL OUTPUT REPORT

### EXCEPTION REPORT COMMENTS

#### 4TH QTR: (Cont'd)

In FY '08 the Arizona fish consumption advisory program concentrated on sampling lakes and reservoirs as well as processing samples taken in spring '07. Below is a list of the samples taken/processed:

##### **Fish samples analyzed in Fiscal 2008**

Parker Canyon	6
Roosevelt Crappie	15
Crowthers hatchery trout (AGFD)	5
Mr. Fish urban fishery cats (AGFD)	5
Arivaca Lake	5
Pena Blanca Lake	6
Nelson Reservoir	3
Parker Canyon 7/10/08	16
Roosevelt Bass	17
Roosevelt Cats	1
Show Low	4
Little Colorado (EMAP)	4
Chevron Creek (EMAP)	2
Silver Creek (EMAP)	1
Becker Lake	6
Fool Hollow Lake	7
Luna Lake	5
Rainbow Lake	5
River Reservoir (EMAP)	4

Also during '08, draft fish consumption advisories based on mercury were prepared for two of the major lakes in Arizona; Roosevelt and Pleasant.

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.6	TASK: Ambient Monitoring Program (Cont'd)  DELIVERABLES:		

FTE FUNDING SOURCE	MONTHS	AMOUNT
GF	12.00	51,789
ST NPS IX	20.00	69,376
WQARF PPG	21.00	69,437
WQARF NPS VIII	27.00	94,385
PPG	8.50	30,863
NPS VIII	2.50	8,090
NPS IX	3.00	9,708
106 Monitoring	6.00	21,272
TOTAL	100.00	354,920

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.7	<b>TASK: 106 Monitoring</b>  Monitoring Initiative (MI) program for implementation of AZ approved monitoring strategy, including National Lakes Survey.  <b>DELIVERABLES:</b>		
106 Mon	1) Support monitoring personnel	T = 6/08 <b>A = 6/08</b>	Surface Water
106 Mon	2) Midge Identification a) Submit samples to lab for Taxonomic ID of approximately 300 archived midge samples to obtain genus level of identification b) Receive final report on lab identification and begin IBI refinement work.	T = a) 4/07 <b>A = 7/07</b>  b) 12/07 <b>A = 12/07</b>	Surface Water
106 Mon	3) Monitoring Program Support a) Provide training for staff Lakes survey and REMAP b) Purchase field and monitoring equipment	T = a) 5/07 <b>A = 4/07</b>  b) Ongoing thru 6/30/08	Surface Water
106 Mon	4) Wetland Remote Sensing Project a) Contract and begin development b) Update “azwetlands” cover based on current wetland information and develop AZ classifications.	T = <b>Comment</b> a) 6/08 b) 6/08	Surface Water
106 Mon	5) Public Data Access a) Make groundwater quality data available to public via portal.	T = <b>Comment</b> a) 11/07	Surface Water
106 Mon	6) Develop Research Plan to add second biological assemblage to stream program. a) Contract to analyze diatom data from Santa Cruz Pilot Project b) Develop algae as 2 <sup>nd</sup> biological assemblage.	T = a. 12/07 <b>A = 4/07</b> b. 06/08 <b>A = 6/08</b>	Surface Water
106 Mon	7) Develop research plan to add biological assemblage for the lakes program. a) Determine appropriate 2 <sup>nd</sup> biological assemblage	T = a) 06/08 <b>A = 6/08</b>	Surface Water
106 Mon	8) Update EDAS Biocriteria Database a) Identify upgrade needs b) Contract for services	T = a) 7/07 <b>A = 7/07</b> b) 12/07 <b>A = 12/07</b>	Surface Water
106 Mon	9) Task Physical Integrity a) Inventory bank height ratio, width depth ratio and Bank Erosion Hazard Index (BEHI) data.	T = a) 6/08 <b>A = 6/08</b>	Surface Water



## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #4500: Surface Water Regulation</b>	
<b>Objective #3:</b> Reduce pollutant loading to surface water.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.7</b>	<b>TASK: 106 Monitoring (Cont'd.</b>  <b>DELIVERABLES:</b>		
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable #4 was delayed due to time constraints. The wetland coordinator was unable to attend wetland delineation training and had to invest additional time training herself. Coordination with internal GIS staff and the US Fish and Wildlife Department also took additional time. A scope of work has been received from the University of Arizona and an ISA should be approved this summer. Deliverable #5 will not be completed until late August 2008. Staff vacancies at the University of Arizona working on the project delayed completion of the work necessary to incorporate ADEQ's groundwater quality data into the AZ Wells online database. However, UA staff vacancies have been resolved and the project is now continuing. Deliverable #6; A final report from Ecoanalyst was completed in June 2008. Deliverable #7; Algae data was collected and analyzed. The next step for both deliverables is to develop a research plan. The plan will outline additional research needed for developing a second biocriteria standard for streams and a biocriteria standard for lakes.			

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
ST NPS IX	6.00	25,834
106 Monitoring	6.00	21,272
<b>TOTAL</b>	<b>12.00</b>	<b>47,106</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.8	<b>TASK: Water Quality Assessment</b>  Development of water quality assessment documents (e.g. 305(b), 205(j) and processes).  <b>DELIVERABLES:</b>		
PPG NPS VIII	1) Submit Arizona's Integrated 305(b) Assessment and 303(d) Listing report to EPA.	T = 4/08 <b>Comment</b>	Surface Water
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> Deliverable #1 not met; notice of public information containing final 303d list for 2006-2008 submitted October 15, 2007. Still under internal review; expect to Public Notice this document in the Fall of 2008.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GF	3.00	6,880
ST PPG	2.84	13,301
WQARF NPS VIII	4.00	17,397
WQARF PPG	2.16	10,116
PPG	23.00	82,222
NPS VIII	8.00	27,775
TOTAL	43.00	157,691

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.9	<b>TASK: TMDL Analyses</b>  Oversee Total Maximum Daily load (TMDL) efforts and conduct TMDLs and related analyses.  <b>DELIVERABLES:</b>		
NPS VIII/ NPS IX	1) TMDL projects in modeling phase a) Pinto Creek – headwaters to Ripper Spring (Cu); and Pinto Creek - Ripper Spring to Roosevelt Lake (Cu) i) Submit TMDL report to EPA for approval  b) Mule Gulch – headwaters to Above Lavendar Pit (Cd, Cu, pH, Zn); and Mule Gulch - Above Lavendar Pit to WWTP Bisbee (Cu, Cd, pH, Zn); and Mule Gulch - WWTP Bisbee to Highway 80 Bridge (Cu, Cd, pH, Zn) i) Collect background samples ii) Propose site specific standard iii) Complete TMDL modeling based on site specific standard	T = <b>Comment</b>  i) 12/07     i) thru summer 07 ii) 12/07 iii) 06/08	Surface Water
Queen Creek  Lake Mary	2) 104(b)3 Grants a) Queen Creek headwaters to Superior WWTP (Cu) and Superior WWTP to Potts Canyon (Cu) i) Submit TMDL to EPA for approval b) Lake Mary Regional TMDL (Hg) i) Submit TMDL to EPA for approval. c) Alamo Lake TMDL (Hg) i) Revise TMDL to include Phelps Dodge WLA ii) Open public comment period iii) Resubmit TMDL to EPA for approval (FY03-04 Mercury TMDL grant closed)	T = <b>Comment</b>  ai) 10/07  bi) 10/07  ci) 12/06 <b>A = 12/06</b>  cii) 6/07 ciii) 9/07	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #4500: Surface Water Regulation</b>	
<b>Objective #3:</b> Reduce pollutant loading to surface water.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.9</b>	<b>TASK: TMDL Analyses (Cont'd)</b>  <b>DELIVERABLES:</b>		
NPS VIII	3) TMDL projects in monitoring phase a) Oak Creek – Headwaters to Spring Creek (E. coli) i) Continue sampling through summer 07 ii) Submit TMDL report to EPA for approval b) Parker Canyon Lake (Hg) i) Continue sampling through summer 07 ii) Submit TMDL report to EPA for approval iii) Continue sampling throughout fiscal year c) Gila River – Bonita Creek to Yuma Wash (E. coli) i) Continue sampling throughout fiscal year d) Gila River – Skully Creek to San Francisco River (Se) i) Continue sampling throughout fiscal year e) Lyman Lake (Hg) i) Continue sampling throughout fiscal year f) Watson lake (nitrogen, low DO, high pH) i) Continue sampling throughout fiscal year g) Crescent Lake (high pH) i) Continue sampling throughout fiscal year h) Little Colorado River – Silver Creek to Carr Wash (E. coli) i) Continue sampling throughout fiscal year i) Little Colorado River – Porter Tank to McDonalds Wash (Cu, Ag, SSC) i) Continue sampling throughout fiscal year j) San Pedro – Aravaipa Creek to Gila River (E. coli, Se) i) Continue sampling throughout fiscal year k) Santa Cruz River – Mexico Border to Nogales (E. coli) i) Continue sampling throughout fiscal year l) East Verde River – American Gulch to Verde River (As, B) i) Continue sampling throughout fiscal year	T =  <b>Comment</b>  i) 9/07 ii) 6/08  i) 9/07 <b>A = 9/07</b> ii) 6/08  i) Ongoing  i) Ongoing  i) Ongoing i) Ongoing i) Ongoing i) Ongoing i) Ongoing i) Ongoing i) ongoing i) Ongoing i) Ongoing	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.9	TASK: TMDL Analyses (Cont'd)  DELIVERABLES:		
PPG	4) Pre-TMDL activities for: a) Gila River – Centennial Wash to Gillespie Dam (B, Se) i) Develop SAP ii) Initiate sampling b) Mineral Creek – Devils Canyon to Gila River (Se, Low DO) i) Develop SAP ii) Initiate sampling c) Gila River – New Mexico border to Bitter Creek (E. coli, SSC) i) Develop SAP ii) Initiate sampling d) Alvord Park Lake (Ammonia) i) Develop SAP ii) Initiate sampling e) Chaparral Lake (low DO, E. coli) i) Develop SAP ii) Initiate sampling f) Cortex Park Lake (low DO and high pH) i) Develop SAP ii) Initiate sampling	T =  Comments  i) 12/07 ii) throughout FY  i) 10/07 ii) throughout FY  i) 10/07 A = 10/07 ii) throughout FY  i) 12/07 ii) throughout FY  i) 2/08 ii) throughout FY  i) 2/08 ii) throughout FY	Surface Water
NPS IX	5) Long-term TMDL projects a) Verde River – headwaters to Horseshoe Reservoir (N,P) i) Implementation workplan b) Gila pesticide investigation – numerous segments (numerous parameters) i) Develop SAP ii) Initiate sampling c) Mercury – Air equipment monitoring support i) Maintain Sycamore Canyon MDN site ii) Coordinate with EPA deployment of EPA’s mobile TEKRA unit across state	T =  Comments  i) throughout FY  i) 12/07 ii) 2/08  i) throughout FY ii) as available	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.9	TASK: TMDL Analyses (Cont'd)  DELIVERABLES:		
PPG	6) Targeted monitoring activities a) Lynx Creek area i) Sample collection to support USFS and EPA remediation activities b) Sonoita Creek – 750 ft. below Patagonia WWTP to Santa Cruz River (Zn, low DO) i) Targeted sampling to determine if impairment results solely from Alum Gulch input c) Cave Creek – headwaters to South Fork Cave Creek (Se) i) Collect samples to support future delisting	T =  i) throughout FY  i) throughout FY  i) throughout FY	Comments  Surface Water
	7) Hold teleconferences with EPA Region IX TMDL staff.	T = Monthly A = Monthly	Surface Water
	8) Continue coordination with Federal land management agencies on 303(d) listed waters.	T = Ongoing A = Ongoing	Surface Water
	9) Continue coordinating implementation efforts on impaired waters with TMDL implementation plans.	T = Ongoing A = Ongoing	Surface Water
	10) Attend Watershed Group meetings.	T = Ongoing A = Ongoing	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #4500: Surface Water Regulation</b>	
<b>Objective #3:</b> Reduce pollutant loading to surface water.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.9</b>	<b>TASK: TMDL Analyses (Cont'd)</b>  <b>DELIVERABLES:</b>		
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable #1(ai) not met; delayed until SSS adopted in Triennial Review process; likely FY09. Deliverable #1(bii) not met; awaiting modeling results; Deliverable #1(biii) not met; modeling contract has been awarded, measure is on FY09 workplan. Deliverable #2(a-c) incomplete; a) modeling effort by ADEQ staff is currently in process; b) and c) mercury standard is included in Triennial Review; measures are on FY09 workplan. Deliverables #3(aii and bii) not met; part of Triennial Review and on FY09 workplan. Deliverables #3(c-l) ongoing; see 4 <sup>th</sup> quarter narrative summary for more details. Deliverable #4(a) not met; measure on FY09 workplan. Deliverable #4(bi) not met; delayed until consent decree resolved. Deliverable #4(c) completed. Deliverables #4(di-ei and fi) not met; new staff developing SAPs, measures on FY 09 workplan. Deliverable #5(bi); not met due to work load resources. Deliverable #5(bii) not met; delayed due to other storm event sampling activities. Deliverable #5(ci)- continued operation of MDN site throughout the year. Deliverable #5 (cii): Tekran was not deployed in AZ in FY08 due to logistical issues. Deliverable #6(a) not met; resources did not allow for sampling of Lynx Creek; not included on FY09 workplan. Deliverable #6(b) scheduled to continue through FY09. Deliverable #6(c); Cave Creek was sampled once during fiscal year, will be targeted in FY09 for one more sampling event. Deliverables 7 through 10 completed for FY08.			

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GF	12.00	44,855
ST NPS IX	21.58	85,386
WQARF NPS VIII	9.00	31,394
QUEEN CREEK TMDL	4.00	16,053
PPG	26.00	91,933
NPS VIII	19.00	70,504
NPS IX	28.44	109,334
<b>TOTAL</b>	<b>120.02</b>	<b>449,459</b>

## **FY08 4th QUARTER FINAL OUTPUT REPORT**

### **Task 1.3.9: TMDL Analyses TMDL Year End Narrative Exception Report Fiscal Year 2008**

- 1) TMDL Projects in modeling phase
  - a) Pinto Creek (headwaters to Ripper Spring)- the site specific standard of 42 µg/L is included in the Triennial Review of Surface Water Quality Standards (TR). Several data inquiries and extensive comments have been made on this proposed standard. Upon adoption of the standard, the TMDL will be submitted to EPA for approval; the draft TMDL is targeted to be completed in the fall of 2009.
  - b) Mule Gulch (headwaters to Highway 80 Bridge)- a modeling contractor has been selected to work on the natural background issues. A complicating factor will be historic smelter emissions and their residual concentrations in the watershed. It is anticipated that a site specific standard will be proposed for Mule Gulch; target completion in June 2009, this target may be delayed if a site specific standard is required.
- 2) 104(b)(3) Grants
  - a) Queen Creek (headwaters to Potts Canyon)- modeling is underway, extensive data (including natural background) were collected in the winter season; data results from the lab were delayed due to the number of samples submitted but all have now been received. It is anticipated that the model run will be completed in August with the TMDL to be completed in early 2009.
  - b) Lake Mary Regional TMDL- additional soil data was collected to aid in the determination of natural soil concentrations; discussions are ongoing with the modeling contractor to determine how to interpret these results and their affects on the TMDL calculations. The mercury fish tissue standard is included in the TR and the final submittal of the TMDL is delayed until that process is completed (early 2009).
  - c) Alamo Lake- additional watershed soil sampling was undertaken to determine the appropriate natural mercury soil concentrations; the model must be rerun once the data is incorporated. The mercury fish tissue standard is included in the TR and the final submittal of the TMDL is delayed until that process is completed (early 2009).
- 3) TMDL Projects in modeling phase
  - a) Oak Creek (headwaters to Spring Creek)- data analysis and sufficiency is underway and will be aided by the approach used in the Upper Gila River project; completion projected for late 2008.
  - b) Parker Canyon Lake- modeling is nearing completion; draft TMDL will be completed in fall 2008. The mercury fish tissue standard is included in the TR and the final submittal of the TMDL is delayed until that process is completed (early 2009).
  - c) Gila River (Bonita to Yuma Wash)- *E. coli* and sediment TMDLs are near completion, public review should begin in August with submittal to EPA in late 2008.
  - d) Gila River (Skully/Cottonwood Creek to San Francisco River)- *E. coli* and sediment TMDLs are near completion, public review should begin in August with submittal to EPA in late 2008.
  - e) Lyman Lake- winter storm runoff, spring melt, baseflow, precipitation, in-lake and fish tissue sampling has occurred; summer storm runoff should conclude the sampling effort for this project. Additional analyses of core samples will also occur this summer to



## FY08 4th QUARTER FINAL OUTPUT REPORT

determine power plant contributions to the lake. Additionally Tekran data analysis is ongoing.

- f) Little Colorado River (Silver Creek to Carr Wash) - a new project manager has been assigned and stormwater sampling will occur this summer.
- g) Little Colorado River (Porter Tank to McDonalds Wash) - a new project manager has been assigned and stormwater sampling will occur this summer.
- h) San Pedro River (Aravaipa Creek to Gila River) - baseflow sampling has occurred and automatic samplers have been installed to aid in storm runoff data collection.
- i) Santa Cruz River (Mexico border to below WWTP) - baseflow sampling has occurred and the Friends of the Santa Cruz have been collecting monthly samples.
- j) East Verde River (American Gulch to Verde River) - limited action has occurred on this project as the project manager spent extensive time on the Queen Creek data validation.

### 4) Pre TMDL Activities

- a) Gila River (Centennial Wash to Gillespie Dam) - no progress has occurred on this project.
- b) Mineral Creek (Devils Canyon to Gila River) - this project is on hold pending compliance with a consent decree.
- c) Gila River (New Mexico border to Bitter Creek) - this project was included with the larger Upper Gila River and sediment TMDL effort; completion is anticipated in the fall of 2008.
- d) Alvord Lake- draft SAP has been completed; some listing data has been called into question and is being investigated.
- e) Chaparral Lake- initial TMDL activities are ongoing (data review, reconnaissance, SAP development).
- f) Cortex Park Lake- initial TMDL activities are ongoing (data review, reconnaissance, SAP development).

### 5) Long term TMDL projects

- a) Verde River (headwaters to Horseshoe Reservoir) - no activity has occurred on the project due to resource constraints.
- b) Gila River (pesticides) - no activity has occurred on the project due to resource constraints.
- c) Mercury deposition- operation of the MDN station nears Parks, AZ continues; Tekran was not deployed in the state this year due to logistical issues/ Tetra Tech is analyzing previously collected data.

### 6) Targeted Monitoring

- a) Lynx Creek watershed- no activity has occurred on this project. Instead, targeted monitoring resources were focused on effectiveness monitoring in areas where TMDLs and on-the-ground-improvements have occurred.
- b) Sonoita Creek (750ft below WWTP to Santa Cruz River) - preliminary results indicate that the Alum/Flux Canyon drainage is the source of zinc to Sonoita Creek. An SAP has been drafted to study the low D.O. observed below the WWTP/groundwater upwelling zone; sampling will take place in FY09.
- c) Cave Creek (headwaters to South Fork Cave Creek)- additional samples were collected in June and are being analyzed for selenium using EPA 200.8 which will allow direct

## FY08 4th QUARTER FINAL OUTPUT REPORT

comparison to the applicable standard. ADEQ believes that another year's worth of data may lead to a delist.

- 7) Teleconference with EPA- ADEQ and EPA have started monthly teleconferences to discuss TMDL specific activities.
- 8) Coordination with federal land management agencies- ADEQ held its annual nonpoint sources meeting with the USFS; TMDL project managers routinely update land managers of activities occurring on their lands.
- 9) Coordinated efforts on implementation- TMDL unit works closely with the ADEQ grants unit and local watershed groups as needed. We have spent considerable time trying to develop "straight to implementation" strategies with the ADEQ grants unit.
- 10) Attend watershed group meetings- the TMDL watershed coordinator attends several watershed group meetings each month.

### Task 1.3.10 TMDL Implementation Plans

- 1) Develop TMDL implementation plans
  - a. Pinto Creek TMDL- the final implementation plan has not been drafted. Smaller inactive mines in the watershed are on USFS lands and the USFS has been made aware of their existence. Currently these sites are a low USFS priority.
  - b. Queen Creek TMDL - awaiting model completion and source identification; anticipated completion date is fall 2008.
  - c. Mule Gulch TMDL - awaiting model completion and source identification; anticipated completion date in spring 2009.
  - d. Oak Creek TMDL - an updated TIP will be completed as the TMDL is recalculated; anticipated completion date is fall 2008.
  - e. Parker Canyon TMDL - modeling is almost completed and as sources are identified a TIP will be developed; anticipated fall 2008.
- 2) Effectiveness Monitoring
  - a. Turkey Creek- sampling has shown a significant decrease in copper and zinc loading from the Golden Belt and Golden Turkey mines; additional samples will be collected from the upper watershed during the summer monsoon season to determine the source of lead.
  - b. Alum Gulch- no storm samples have been collected post remediation of the World's Fair and Humboldt mines; autosamplers will be installed to sample stormwater this summer; sampling efforts are being coordinated with USFS.
  - c. Pinto Creek- remediation at the Gibson mine has lowered the copper load to Pinto Creek but the Gibson tributary continues to exceed the proposed site specific standard; additional remedial work may be needed at the site but discussions with the landowner have not occurred; additional sampling will be attempted this summer.
  - d. Hassayampa River- one sampling event was attempted but insufficient snow melt occurred to produce runoff; sampling will be attempted again next spring.

## **FY08 4th QUARTER FINAL OUTPUT REPORT**

- e. Boulder Creek- no sampling has occurred due to no remedial activities; fish sampling will be attempted in fall '08 now that ADEQ's fish collection license has been renewed.
  - f. Rainbow Lake- the buffer strips have been installed and volunteers have been trained to collect effectiveness data. Additional lake and watershed sampling are scheduled for this summer as the laboratory held last year's samples past applicable holding times. Dredging of the lake has been pursued by the watershed partnership but will likely be cost prohibitive.
- 3) Coordinate with federal agencies on 303(d) listed waters- ADEQ TMDL staff continue to work with federal and state agencies to coordinate efforts on 303(d) waters by continually updating agencies affected by current studies.

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.10	<b>TASK: TMDL Implementation Plan</b>  Develop TMDL implementation plans in support of approved TMDL projects.  <b>DELIVERABLES:</b>		
NPS VIII	1) Develop TMDL implementation plans a) Pinto Creek TMDL i) Final TMDL implementation plan b) Queen Creek TMDL i) Final TMDL implementation plan c) Mule Gulch TMDL i) Final TMDL implementation plan d) Oak Creek TMDL i) Draft TMDL implementation plan ii) Final TMDL implementation plan e) Parker Canyon TMDL i) Draft TMDL implementation plan ii) Final TMDL implementation plan	T = <b>Comment</b>  i) 12/07  i) 10/07  i) 6/08  i) 4/08 ii) 6/08  i) 3/08 ii) 4/08	Surface Water
NPS IX	2) Conduct effectiveness Monitoring where improvements have been implemented. a) Turkey Creek – Golden Belt/Golden Turkey remediation b) Alum gulch – World's Fair and Humbolt mine remediation; January adit wetland c) Pinto Creek – Gibson Mine remediation d) Hassayampa River – McClellan Mine remediation e) Boulder Creek – Hillside Mine remediation f) Rainbow Lake – dredging and buffer trip	T = <b>Comment</b> a) throughout FY b) throughout FY c) throughout FY d) throughout FY e) throughout FY f) throughout FY	Surface Water
	3) Coordinate with federal land management agencies on 303(d) listed waters.	T = throughout FY <b>Comment</b>	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.10	TASK: TMDL Implementation Plan (Cont'd)  DELIVERABLES:		
<p style="text-align: center;"><b>EXCEPTION REPORT COMMENTS</b></p> <p><b>4TH QTR:</b> Deliverables # 1(a-e) incomplete; all data collected; awaiting modeling results. Deliverables #2; sampling activities continue as rainfall and critical flow conditions allow; included on FY 09 workplan. Deliverable #3; ongoing discussions with Forest Service and BLM on sites.</p>			

\* NOTE: At EPA's request, a separate quarterly update for performance measure SP-12 follows.

FTE FUNDING SOURCE	MONTHS	AMOUNT
NPS VIII	13.50	48,566
NPS IX	6.00	20,750
ST NPS IX	4.50	18,791
TOTAL	24.00	88,107

## **FY08 4th QUARTER FINAL OUTPUT REPORT**

### **Performance Measure SP-12 (W) Updates**

**FY 08 4th Quarter**

**July 8, 2008**

Turkey Creek- Laboratory results from several winter storms indicate that copper and lead loads from the Golden Belt and Golden Turkey mines have been significantly reduced. Additional sampling will allow a quantitative measure of this reduction hopefully confirming that the loads are near zero. The source of the lead load from the upper watershed has not been identified and a recent forest fire in the area may complicate the issue depending on the exact area burned. The fire is near the town of Crown King as is one of the suspected source watersheds, Bear Canyon.

Pinto Creek- No recent samples have been collected. As previously mentioned the Gibson Tributary samples are much lower than pre-remediation levels (approx ½) but still approximately 10X the proposed site specific standard for Pinto Creek.

Alum Gulch- No samples, post remediation, have been collected. Auto samplers will be installed in the next month to collect storm runoff samples during the monsoon season.

Boulder Creek- No movement has occurred regarding any type of limited liability waiver for Phelps Dodge, Bagdad to accept and dispose of the tailings material from the three piles at the Hillside mine. If EPA and ADEQ Waste Program agree on appropriate language, then ADEQ Water Quality will approach Phelps Dodge and Freeport McMoRan to determine their interest. If no acceptable waiver language can be formulated, some type of on-site remediation action will need to be engineered.

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.11	<b>TASK: NPS Base Program Management</b>  Plan, manage and implement a Nonpoint Source Pollution Program, including the development of watershed management and watershed-based plans.  <b>DELIVERABLES:</b>		
NPS VIII NPS IX	1) Continue to oversee UA contract to develop watershed-based plans, incorporating EPA's nine key elements for the following watersheds: a) Submit draft and final watershed based plans for: i) Salt River ii) Santa Cruz iii) Middle Gila	T = 06/08 & 06/09 <b>A = 06/08</b>  a) FY 09	Planning
NPS IX	2) Provide technical support to community-based watershed groups to address NPS pollutant impacts.	T = As needed <b>A = Completed</b>	Planning
NPS IX	3) Provide oversight of existing MOUs with USFS, BLM, ADWR, AGFD, and various tribes. Update agreements as needed.	T = Annual meetings (as required) FY08 & FY 09 <b>A = 5/08</b>	Planning
NPS IX	4) Submit annual NPS report in accordance with EPA's annual reporting requirements outlined in <i>NPS Program and Grants Guidelines for States &amp; Territories</i> .	T = 09/07 & 09/08 <b>A = 10/07</b>	Planning
NPS IX	5) Attend national nonpoint source annual meeting.	T = 06/08 & 06/09 <b>Comment</b>	Planning
PPG	6) Conduct education/outreach efforts to increase public awareness of NPS impacts to surface and groundwater resources. a) Provide oversight on 319(h) funded NPS education and outreach contracts. b) Support requests from the community and local schools for water education.	T = Ongoing <b>A = Ongoing</b>	Planning
NPS VII	7) Provide CWAP (Clean Water Action Plan) report to EPA on project status	T = Semi-annually <b>Comment</b>	Planning Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.11	TASK: NPS Base Program Management (Cont'd)  DELIVERABLES:		
<p style="text-align: center;"><b>EXCEPTION REPORT COMMENTS</b></p> <p><b>4TH QTR:</b></p> <p>Deliverables 1 and 2 have been completed. NEMO has also received approval from ADEQ to finish watershed based plans for the entire state. Deliverable 4: Draft report for FY 09 will be completed in August '08. Deliverable 5 is incomplete. The National NPS annual meeting was not held this fiscal year. Deliverable 6: Staff has conducted outreach events as time permitted. New education grants were developed this fiscal year. Existing education grants were managed successfully and encouraged to move toward outcome-based approach in line with ADEQ priorities. Deliverable 7 has been replaced with TMDL reporting spreadsheet. This information will also be provided in the NPS annual report.</p>			

FTE FUNDING SOURCE	MONTHS	AMOUNT
NPS VIII	10.00	38,718
NPS IX	13.00	56,022
PPG	4.00	13,408
TOTAL	27.00	108,148



## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.12	<b>TASK: 319(h) Project Management</b>  ADEQ will ensure that Federal dollars available for Section 319(h) projects will be targeted to water quality impairments resulting from NPS pollution. Educational opportunities, such as workshops and training, will continue to be pursued.  <b>DELIVERABLES:</b>		
NPS VIII	1) Solicit, evaluate and select 319 grant applications. a) Develop and conduct grant workshops. b) Target watersheds and/or nonpoint sectors (e.g. impaired watersheds, watersheds with TMDL implementation plans, watershed based plans). c) Develop and execute 319(h) grant agreements..	T = 1 (Annual) a) A = 12/07 b) Ongoing  c) T = 6/08      A = 6/08	Planning
NPS VIII	2) Provide oversight on 319(h) funded implementation projects for correction of NPS impairments.	T = Ongoing	Planning
	3) Maintain and update library of final 319(h) project reports.	T = Ongoing	Planning
NPS VIII	4) Report project activities and input load reduction information into GRTS database.	T = Ongoing	Planning
NPS VIII	5) Attend annual GRTS meeting and regional GRTS training.	T = 09/07      A = 10/07	Planning
NPS IX	6) Coordinate annual meeting to set internal goals for 319(h) projects. Provide report to EPA.	T = Annually, FY 08 & FY 09 A = Completed for FY 08	Planning
NPS IX	7) Coordinate and conduct grant award meetings to assure compliance with state and federal guidelines.	T = Ongoing	Planning
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b>  Deliverable 1: Grant agreements are in place and program has developed a new grant program that will target watersheds for 319(h) projects. Deliverables 2-4 & 7 ongoing; Deliverable 3: Group organized and updated final report library in May '08, and library will be properly maintained. Deliverable 5 is complete; one staff member will be selected to attend '08 GRTS meeting in December. Deliverable 6 is complete.			

\*Grant schedule under development.

FTE FUNDING SOURCE	MONTHS	AMOUNT
NPS VIII	11.00	38,137
NPS IX	26.00	93,724
TOTAL	37.00	131,861

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.13	<b>TASK: REMAP</b>  Development of an Arizona perennial streams map, comparative study of EMAP and ADEQ biological monitoring and assessment methods, and development of an example EMAP-style 305(b) watershed assessment.  <b>DELIVERABLES:</b>		
REMAP	1) Phase I: Develop/update AZ perennial stream map.  a) Draft GIS map and database for Colorado Plateau hydrophysiographic province. b) Draft statewide GIS map and database for all 3 hydrophysiographic provinces. c) Conduct surveys of land and resource managers and load data into Flow Status Database. d) Finalize GIS map and database e) Annual progress report to USEPA	a) T = 7/06      A = 8/15/06 b) T = 9/06      A = 12/06 c) T = 10/06      A = 3/07 d) T = 10/06      A = 5/12/07 e) T = 10/06      A = 3/30/07	Surface Water
REMAP	2) Phase II: Conduct probabilistic monitoring of streams in the Little Colorado R. basin using ADEQ and REMAP methods.  a) USEPA random site selection b) ADEQ site review/reconnaissance c) EMAP methods training for ADEQ, AGFD and USGS staff. d) EMAP and ADEQ biological monitoring of 35 sites in the Little Colorado R. basin e) Data report submitted to USEPA f) Annual progress report to USEPA	a) T = 8/06      A = 9/07/06 b) T = 9/06      A = 10/06 c) T = 3/07      A = 3/07 d) T = 6/07      A = 6/07 e) T = 9/07      A = 3/08 f) T = 10/07      A = 1/08	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #3: Reduce pollutant loading to surface water.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.13	<p><b>TASK: REMAP</b></p> <p>Development of an Arizona perennial streams map, comparative study of EMAP and ADEQ biological monitoring and assessment methods, and development of an example EMAP-style 305(b) watershed assessment.</p> <p><b>DELIVERABLES:</b></p>		
REMAP PPG	<p>3) Phase II extension: Methods Comparison Study and EMAP Watershed Assessment Report. *</p> <p>a) Compare the performance characteristics of EMAP and ADEQ macroinvertebrate metrics and IBIs to determine if datasets are suitable for combining and to determine if they produce similar assessments of site conditions..</p> <p>i) Data entry of EMAP and ADEQ macroinvertebrate and habitat data into EDAS database</p> <p>ii) Conduct statistical analyses</p> <p>iii) Produce draft technical report on methods comparison</p> <p>iv) Produce final technical report</p> <p>v) Annual progress report to USEPA</p> <p>vi) Attendance/Presentation at North American Benthological Society annual conference, EMAP conference, and National Water Quality Monitoring Council meetings</p> <p>b) Produce an EMAP bioassessment for the Little Colorado River watershed.</p> <p>i) Data entry of fish and algae community data and fish tissue data into EDAS database; water chemistry into WQDB</p> <p>ii) Conduct statistical analyses</p> <p>iii) Produce technical report; EMAP assessment for the Little Colorado River basin</p> <p>iv) Produce final technical report</p> <p>v) Annual progress report to USEPA</p>	<p>i) T = 3/08      <b>A = 3/08</b></p> <p>ii) T = 6/08      <b>Comment</b></p> <p>iii) T = 9/08</p> <p>iv) T = 6/09</p> <p>v) T = 12/08</p> <p>vi) T = 6/09</p> <p>i) T 6/08      <b>A = 7/08</b></p> <p>ii) T = 10/08</p> <p>iii) T = 12/08</p> <p>iv) T = 6/09</p> <p>v) T = 12/08</p>	Surface Water

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.13	TASK: REMAP (Cont'd)  DELIVERABLES:		
<p style="text-align: center;"><b>EXCEPTION REPORT COMMENTS</b></p> <p><b>4TH QTR:</b> Deliverable #3a(ii) not met; one month behind schedule. ADEQ will perform statistical analyses of EMPA and ADEQ datasets for Phase II methods comparison study in August 2008. Deliverable #3(b)(i); data is in; awaits being loaded into database.</p>			

FTE FUNDING SOURCE	MONTHS	AMOUNT
PPG	7.00	28,728
REMAP	4.00	12,944
TOTAL	11.00	41,672

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #s 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.1</b>	<b>TASK: Division &amp; Section Management</b>  Manage Water Quality Division and Section programs. Perform managerial, administrative, database development and other program duties. Advise management team and provide guidance and training to staff. Design and maintain security and business continuity plans. Provide staff support and communications to public interest/stakeholder involvement efforts. Provide program oversight and guidance to regional staff performing tasks under the integrated workplan  <b>DELIVERABLES:</b>		
PPG	1) Reports: a) Section FY08 Exception Report to WQ Planning Section. Due 15 days after end of the 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> state FY quarters. b) Section FY07 annual Output Report to WQ Planning. Section. Due 15 days after end of fiscal year. c) Section Performance Measures Report to WQ Planning Section. Due 11 days after end of quarter.	T = a) Quarterly A = 4  b) Annually A = 8/07  c) Quarterly A = 4	All Sections
PPG	2) EPA/ADEQ grant meetings: a) End of year review for FY 2007 b) Mid-year review for FY 2008 c) EPA negotiation meetings for FY 2009	T = a) 09/07 A = 9/07 b) 02/08 A = 2/08 c) 03/08 A = 4/02/08	All sections
PPG	3) Support studies on water quality improvements under the Technology and Research Initiative Fund (TRIF) grant program administered by the University of Arizona and Arizona Water Institute, respectively.	T = Annually Done	Director

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #s 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
1.4.1	<b>TASK: Division &amp; Section Management (Cont'd)</b>  <b>DELIVERABLES:</b>		
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable 3: The division has supported the following studies during FY 08: <ul style="list-style-type: none"><li>AWI Project 08-39, <i>Status of Generation, Reuse, and Recharge of Treated Wastewater in Arizona: Evaluation of Programs, Data Sources, and Utilization Opportunities</i>. WQD contributed a \$5000 cash match. Project is now underway with a scheduled end date in 2009. WQD in-kind involvement will include provision of reclaimed water data and information about ADEQ's reclaimed water permitting program and reclaimed water quality standards.</li><li>TRIF Project P06-04, <i>Predicting Ground Water Vulnerability to Nitrate in Arizona</i>. Draft of final report released for review by ADEQ and others in June 2008. WQD contributed significant water quality data, technical support in project concept, scope and model development, and other in-kind support to this project.</li><li>AWI Projects 07-15 and 07-63, <i>Arizona Hydrologic Information System (AHIS): Creation of Web Services and Enhanced Data Connectivity</i>. This phase of project completed. WQD's in-kind involvement included participation in multi-agency planning and coordination activities and major water quality data contributions.</li><li>AWI Project 08-34, <i>Arizona Hydrologic Information Portal—A Collaborative Web Environment for AHIS</i>. WQD is continuing its in-kind involvement and contributions to this major statewide water data integration project, including major water quality data contributions and development of a web services data transfer node for efficiently sharing regular groundwater quality data updates for the AHIS.</li></ul>			

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
ST PWSS	11.66	40,320
GF	68.10	386,460
GF-APP	7.56	25,303
ST PPG	4.36	26,157
PPG	23.10	80,627
WQFF	7.44	17,218
ST NPS IX	11.38	50,651
<b>TOTAL</b>	<b>133.60</b>	<b>626,736</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #s 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation	
Objective #4: Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.4.2	<b>TASK: WQD Rule Development and Implementation</b>  Develop and update Arizona’s drinking water and water quality rules.  <b>DELIVERABLES:</b>		
PWSS Fed	1) Safe Drinking Water: Incorporation by reference rule (18 A.A.C.4) a) File proposed rule with Secretary of State b) File draft final rule with GRRC c) Submit final primacy package to EPA	T =  a) 7/07 A = 3/08 b) 10/07 A = 5/08 c) 12/07 Comment	Director
PWSS Fed	2) Monitoring Assistance Program Rule (18 A.A.C.4) a) File proposed rule with Secretary of State b) File draft final rule with GRRC	T = Comment a) 8/07 b) 11/07	Director
	3) Biosolids Rule (18 A.A.C. 9, Art. 10) a) File proposed rule with Secretary of State b) File draft final rule with GRRC	T = Comment a) 7/07 b) 10/07	Director
	4) Surface water quality standards. (18 A.A.C.11, Art. 1) a) File proposed rule with Secretary of State b) File draft final rule with GRRC	T =  a) 6/07 A = 4/08 b) 9/07 Comment	Director
	5) Aquifer Water Quality Standards (18 A.A.C.11, Article 4) a) File proposed rule with Secretary of State b) File draft final rule with GRRC	T = Comment a) 5/07 b) 8/07	Director
	6) Impaired Water Identification (18 A.A.C.11, Art. 6) a) File proposed rule with Secretary of State b) File draft final rule with GRRC	T = Comment a) 9/07 b) 12/07	Director
	7) Public Water System Design Review Fee rule (18 A.A.C.14, Art. 2) a) File proposed rule with Secretary of State b) File draft final rule with GRRC	T =  a) 10/07 A = 6/08 b) 12/07 Comment	Director
	8) Develop new delegation agreements in conjunction with Office of Administrative Counsel. Provide support to delegated agencies, as needed, including development of workplans, training, etc.	T = As needed Comment	Director

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #s 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.2</b>	<b>TASK: WQD Rule Development and Implementation (Cont'd)</b>  <b>DELIVERABLES:</b>		
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable 1: Only the primacy package remains to be completed. Since the State is incorporating the federal rules by reference, there should not be stringency issues that require analysis. Deliverable 2: The Monitoring Assistance Program Nitrate Sampling Rule, is back on track again after being taken off schedule for analysis of the efficacy of the rule. Deliverable 3: The Biosolids Rule was delayed for several months while the scope of the rulemaking was being evaluated. Deliverable 4: Proposed rule stage for surface water quality standards has been completed. The Department received a large number of comments on the proposed rulemaking. After preparing the preamble, including the response to comment section and making any final changes to the rule language, the draft final rule will be filed with GRRC in the late summer. Anticipate final rules by the end of the calendar year. Deliverable 5: The Aquifer Water Quality Standards Rule was delayed pending resolution of several stakeholder issues which have the potential to derail the rulemaking if not resolved prior to filing a notice of proposed rulemaking. Deliverable 6: The Impaired Water Identification Rule has undergone a major facelift that will result in a much improved final rule product. Most major issues have been addressed, but a few minor issues have yet to be resolved. Deliverable 7: The Public Water System Design Review Fee Rule is nearing completion; the notice of final rulemaking is being filed with the Governor’s Regulatory Review Council. The Council should render a decision on the rule by the end of the year. Deliverable 8: Delegation Agreements made considerable progress in 2008. All 15 county Delegation Agreements have been negotiated and signed. ADEQ is in the process of completing training packages to be delivered by state personnel to City and County local authorities. Delegation training packages have been completed for “Compliance and Enforcement,” “Appealable Agency Actions” and “Sanitary Surveys of Drinking Water Facilities.” ADEQ staff is in the process of completing training packages for our delegated engineering review rules.			

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GF	31.44	141,213
PWSS Federal	16.56	67,892
ST PPG	6.00	26,867
WQFF	12.00	51,000
<b>TOTAL</b>	<b>66.00</b>	<b>286,972</b>



## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #s 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.3</b>	<b>TASK: Water Quality Planning</b>  Coordinate the development and amendment of annual water quality workplans and grants. Plan, control and monitor expenditures of manpower and state/federal financial resources. Manage business functions, including Division contracting activities.  <b>DELIVERABLES:</b>		
	1) Develop annual FY 09 Integrated Water Quality Division workplan and submit to EPA.	T = Draft 03/08 A = <b>3/08</b> Final 06/08 A = <b>6/08</b>	Planning
PPG	2) Coordinate development of performance reports a) FY 08 Exception report to EPA quarterly: b) FY 07 Output report to EPA annually: c) Strategic Performance Measures quarterly: d) Annual report for ADEQ set-asides (Submit to WIFA and EPA.)	T= a) Quarterly A = <b>4</b> b) 08/07 A = <b>8/07</b> c) Quarterly A = <b>4</b> d) 09/07 <b>Comment</b>	Planning
	3) WQ Planning documents a) Distribute budget and workplan books for FY 08 start-up. b) Finalize spreadsheets for FY 09startup.	T = a) 07/07 A = <b>7/07</b>  b) 05/08 A = <b>5/08</b>	Planning
	4) Coordinate with EPA the destruction of the official Construction Grant files as they are returned from State Retention Center.	T = As required <b>Comment</b>	Planning
PPG	5) Report number of cumulative federal grant actions: a) Grant applications/awards: i) New ii) Supplemental funding iii) Awards received b) Change Letters i) Time extensions ii) Rebudgets iii) Workplan revisions	T = Quarterly A = <b>4</b> i) = <b>9</b> ii) = <b>2</b> iii) = <b>8</b>  i) = <b>1</b> ii) = <b>6</b> iii) = <b>1</b>	Planning

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #s 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.3</b>	<b>TASK: Water Quality Planning (Cont'd)</b>  <b>DELIVERABLES:</b>		
	6) Report competitive grant actions a) Grants funding researched i) Proposals submitted ii) Proposals requested	T = Quarterly                      A = 4  i) = 1 ii) = 26	Planning
PPG	7) Develop/modify Accord Agreement.	T = As needed	Planning
	8) Submit WQD Master Profiles for FY 2009.	T = 06/08                      A = 6/08	Planning
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable 2d: We are working with the programs to develop this report. Deliverable 4: No activity during FY 08.			

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GF	37.00	144,402
PPG	68.00	227,114
<b>TOTAL</b>	<b>105.00</b>	<b>371,516</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #'s: 4400: Underground Water Regulation</b> <b>4500: Surface Water Regulation</b> <b>4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.4</b>	<b>TASK: Water Quality Database Development, Implementation &amp; Management</b>  Develop and manage the Water Quality Database (WQDB) and Wastewater Compliance & Enforcement Tracking (WCET) Oracle system and other program specific applications to support data storage, access, retrievals, analysis (e.g. hydrologic modeling, GIS, statistical), integration and sharing. IT technical support for Oracle database applications and E-Government systems maintenance and development tasks will be available from the Information Technology Section (ITS) in the Administrative Services Division.  <b>DELIVERABLES:</b>		
	1) Continue to develop necessary interfaces to accept data submittal from outside agencies, volunteer monitoring groups, SRP, USGS and load directly into surface water and groundwater database.	T = 6/30/08 <b>A = 6/30/08</b>	ITS (ASD) Data Mgmt.
	2) GIS projects and data analysis in coordination with water programs, waste programs, ITS and GIS Technical Committee. Projects include watershed and water quality assessments, WQARF sites, AZ Mapper (Desktop GIS tool) maintenance, WQARF, wellhead protection and special technical studies and modeling/simulations (e.g. Drought Task Force, NPS).	T = As needed <b>Done</b>	Data Mgmt.

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #'s: 4400: Underground Water Regulation</b>	
		<b>4500: Surface Water Regulation</b>	
		<b>4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.4</b>	<b>TASK: Water Quality Database Development, Implementation &amp; Management (Cont'd)</b>  <b>DELIVERABLES:</b>		
PPG	3) Conduct analysis, design, programming, and implementation steps to meet new requirements for WCET database system, including uploads of minor facility data to PCS, enhancements to system needed to support compliance improvement initiative, and meeting future EPA ICIS requirements. Includes linkage of division databases with Azurite (e.g. LTF).	T = 6/30/08 <b>A = 6/30/08</b>	ITS (ASD) Data Mgmt. Compliance
	4) Conduct analysis, design, programming, and implementation steps to meet new requirements for Permits and Certifications database system, including storm water (AZPDES), biosolids, and cafo modules. To be done in conjunction with the Groundwater and Surface Water Sections.	T = 6/30/08 <b>A = 6/30/08</b>	ITS (ASD) Data Mgmt.
	5) Provide maintenance and development support for SDWIS/State database system. To be done in conjunction with the Drinking Water and Compliance Sections.* a) migration to SDWIS Web 2.0.	a) T = 6/30/08 <b>Comment</b>	Drinking Water Compliance ITS (ASD)
	6) Participate in E-Gov initiatives, including basic water quality electronic data transfers and sharing (e.g., AWI AZHIS project, Enfo-Tech project), E-DMRs (e.g., City of Phoenix, Pima County), SDW system data reporting (e.g., SAIC SDWIS module), and E-Permits (e.g., Drywell registrations).	T = 6/30/08 <b>Comment</b>	ITS (ASD) Data Mgmt. Compliance Drinking Water Ground Water Surface Water WQARF (WPD)
PPG	7) Conduct analysis, design, programming, and implementation steps to meet new requirements for Groundwater and Surface Water Quality database system.	T = 06/08 <b>A = 6/30/08</b>	Data Mgmt.

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b>		<b>Program #s: 4400: Underground Water Regulation 4500: Surface Water Regulation 4900: Drinking Water Regulation</b>	
<b>Objective #4:</b> Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Division Programs. Maximize e-government opportunities to enhance customer service and improve access to information.			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.4</b>	<b>TASK: Water Quality Database Development, Implementation &amp; Management (Cont'd)</b>  <b>DELIVERABLES:</b>		
	8) Database assistance and oversight for external data entry and assist internal data entry efforts for surface water and groundwater systems. Tech support for WQARF and UST water quality data loading, and tech support for Water Quality Division use of Discoverer (Oracle-based data query tool).	T = Ongoing <b>Done</b>	ITS (ASD) Data Mgmt. Compliance Surface Water Ground Water Drinking Water Planning
	9) As required under EPA's CROMERR regulation, submit application for approval of electronic reporting systems.	T = 10/13/07 <b>Comment</b>	ITS (ASD) Data Mgmt.
<b>EXCEPTION REPORT COMMENTS</b>			
<b>4TH QTR:</b> Deliverable #6 is delayed until late August '08 due to staff vacancies at UA. Deliverable #5 was not completed due to EPA delays in releasing SDWIS web 2.0 for state use. Deliverable #9 due date was changed by EPA to 10/13/08. All other deliverables were accomplished.			

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GF	17.70	88,278
ST PPG	15.44	54,992
ST PWSS (DW)	12.00	49,603
AZPDES	3.00	15,697
GF SPEC AZPDES	2.00	8,196
WQFF	4.00	14,692
WQARF	3.00	9,920
WQARF PPG (UW)	9.00	29,759
PPG-AZPDES (SW)	2.40	14,398
PPG	5.80	25,500
<b>TOTAL</b>	<b>74.34</b>	<b>311,035</b>

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #4: Administer comprehensive water quality program.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.4.5	<b>TASK: Border Strategy</b>  Continue implementation of the Border Strategy Plan by conducting border-wide water quality studies, identifying water quality transboundary issues, and coordinating with Mexican counterparts toward the resolution of respective issues.  <b>DELIVERABLES:</b>		
PPG	1) Support the development of wastewater pretreatment programs in the Ambos Nogales border region. Specific activities include maintaining the Memorandum of Understanding (MOU) with COAPAES via additions and/or amendments as needed; arranging training on Pretreatment sampling for the staff of COAPAES (Nogales, Sonora); conducting QA/QC on collected samples, assist with source characterization of regulated contaminants entering the Nogales (Sonora) wastewater stream, and provide support in the development of a Policies, Procedures, and Enforcement Response Plan for the Nogales (Sonora) Pretreatment Program.	T = As needed	SRO
PPG	2) Coordinate and chair meetings with binational stakeholders regarding issues and remedies to the water quality impairment of shared watersheds along the US/Mexico border including Nogales Wash in Ambos Nogales.	T = As needed	SRO
PPG	3) Support work in Nogales, Sonora to reduce sanitary sewer overflows into Nogales Wash.	T = As needed	SRO
	4) Coordinate with EPA on Border 2012 meetings and the oversight of projects funded through Border 2012.	T = As needed	SRO
PPG	5) Implement Memorandum of Understanding with the University Sonora (UNISON) to pursue joint water quality projects on binational watersheds along the border.	T = As needed	SRO

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water		Program #4500: Surface Water Regulation	
Objective #4: Administer comprehensive water quality program.			
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.4.5	TASK: Border Strategy (Cont'd)  DELIVERABLES:		
PPG	6) Perform reconnaissance monitoring, hydrologic survey and assist in TMDL and groundwater quality investigations for sites located in the border region as assigned. Investigations may include the need to photodocument conditions, collect field notes, conduct water quality sampling and data management, and/or file preliminary reports on findings.	T = As needed	SRO
PPG	7) Submit exception and year-end reports to Water Quality Planning Section. a) Exception reports due 15 days after end of 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> quarters. b) Year-end Output report due 15 days after end of fiscal year.	T =  a) Quarterly A = 4 b) Annually A = 7/16/08	SRO

## FY08 4th QUARTER FINAL OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #4: Administer comprehensive water quality program.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.4.5	TASK: Border Strategy (Cont'd)  DELIVERABLES:		
EXCEPTION REPORT COMMENTS			
<b>4TH QTR:</b> All tasks for FY 08 have been completed. Of greatest significance: (1) Facilitated development and signature of new memorandum of understanding between the municipality of Nogales, Sonora and the ADEQ for continued support of ongoing pretreatment efforts; (2) Coordinated latest Nogales Wash Coordination Committee meeting (6/5/08) with federal, state, and city stakeholders; (3) Developed two proposals for EPA Border 2012 Program on behalf of Sonoran stakeholders in order to address flood reduction in Nogales, Sonora, and air quality impairments in Agua Prieta; (4) Supported field activities for Friends of the Santa Cruz River and ADEQ TMDL with respect to monitoring on the Santa Cruz River, and transcribed associated water quality data for incorporation in the ADEQ Water Quality Database; (5) Submitted year end FY-08 report on activities to Doug Liden (EPA). Quarterly reports have also been submitted as required by grant.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
PPG (SRO)	12.00	57,000
GF (SRO)	1.50	9,401
TOTAL	13.50	66,401



## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b> <b>Objective #4: Administer comprehensive water quality program.</b>		<b>Program #4400: Underground Water Regulation</b> <b>#4500 Surface Water Regulation</b> <b>#4900 Drinking Water Regulation</b>	
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY</b> T=TARGET A=ACTUAL	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.4.6</b>	<b>TASK: Operational Technical Assistance</b>  The ADEQ will assist individual drinking water and wastewater systems to improve day-to-day operations. Provide value engineering services to WIFA projects and engineering support to Arizona border communities and to delegated counties and cities statewide. Provide technical support to the Water Quality Division.  <b>DELIVERABLES:</b>		
IGA-CW	1) Engineering oversight for Mexican border projects; coordination with Mexican local, state and federal authorities: a) Respond to transboundary uncontrolled water flows to determine the contamination status of the water, initiate or participate in communications with local agencies and implement response actions, if necessary. b) Liaison with the IBWC, local public health agencies, state agencies and federal agencies to plan, prepare and react appropriately when transboundary water flows occur. c) Coordinate with Mexican authorities for participation in Mexican water infrastructure projects that may affect Arizona.	T = As needed	SRO
IGA-CW	2) Provide engineering services to WIFA: a) Provide project conceptual assessment for communities considering participation with WIFA. Initial site visits with project sponsors for engineering reconnaissance overview and draft feasibility assessment. b) Participate in consultant procurement including selection and contract negotiations. Provide a "third-party" opinion for consultant reviews. c) Track project progress and completion, construction outcomes and relate to design standards and regulatory issues. d) Provide regulatory guidance to WIFA project sponsors for APP and AZDPES requirements. e) Serve as a liaison for federal border water and wastewater grants.	T = As needed	SRO

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b> <b>Objective #4:</b> Administer comprehensive water quality program.		<b>Program #4400: Underground Water Regulation</b> <b>#4500 Surface Water Regulation</b> <b>#4900 Drinking Water Regulation</b>	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.4.6	<b>TASK: Operational Technical Assistance (Cont.)</b>  <b>DELIVERABLES:</b>		
PWSS Fees IGA-CW	3) Assist Water Quality Division with engineering technical assistance, training and outreach. a) Assist in training delegated counties and cities, regional office and Phoenix office staff on new permit requirements. b) Participate in the preparation of individual and general wastewater APP through review and guidance for engineering and hydrology aspects. Serve as a senior quality assurance quality control prior to the issuance of an APP. c) Assist in the development of statutes, rules and policy pertaining to water and wastewater permits.	T = As needed	SRO
IGA-CW	4) Submit exception and year-end reports to Water Quality Planning Section. a) Exception reports due 15 days after end of 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> quarters. b) Year-end Output report due 15 days after end of fiscal year.	T =  a) Quarterly      A = 4 b) Annually      A = 1	SRO
<b>EXCEPTION REPORT COMMENTS</b>  <b>4TH QTR:</b> The engineer performed a broad range of operational technical assistance for Mexican and Arizona communities. Engineering oversight activities for Mexican border projects mainly focused of the Los Alisos Wastewater Conveyance and Treatment Plant in Nogales, Sonora. Six meetings in Mexico with local public works staff specific to this project were attended at the request of the EPA Border Program. The ADEQ/WIFA Engineer supplied engineering technical comments on the project scope; additionally, reference engineering plans were furnished by the ADEQ/WIFA Engineer at the request of the Mexican agencies and the BECC. The engineer significantly participated in Nogales Wash Coordination Committee meeting in Nogales, Arizona. The committee is the body for public alerts and responsive actions when there are quality impairments, such as raw sewage, in the wash water attributable to Mexico. Two major events occurred on the wash in the evaluation period; during one in September 2007 a “state-of-emergency” was declared and the engineer provided briefings for ADEQ administration. The engineer met with the IBWC for international border issues in Nogales, Lukeville and Naco.  The engineer in the WIFA role supplied new or continuing substantial conceptual assessments for the communities of Hayden, Miami, Willcox, Winkelman, Naco, Bisbee, Nogales, Yuma, Somerton, Prescott and the San Juan Southern Paiute Tribe. Lesser assessments were provided with other Rural Water Infrastructure Committee members for areas around northern Arizona and the Prescott Valley. Coincident border/WIFA projects are in Yuma, Douglas, Somerton and Nogales (2 sites); integrated engineering and regulatory guidance has expedited the Yuma Colonias B&C project, Nogales projects, and proposed Bisbee “Tin Town” project.			

Note: This task funded by Clean Water SRF Fees \$75,000 (WIFA 2008 Tech Assistance IUP) and Drinking Water fees

## FY08 4th QUARTER FINAL OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b> <b>Objective #4:</b> Administer comprehensive water quality program.				<b>Program #4400: Underground Water Regulation</b> <b>#4500 Surface Water Regulation</b> <b>#4900 Drinking Water Regulation</b>			
TASK/ GRANT	OUTPUT DESCRIPTION			EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL		RESPONSIBLE SECTION/ STAFF	
1.4.6	<b>TASK: Operational Technical Assistance (Cont.)</b>  <b>DELIVERABLES:</b>						

FTE FUNDING SOURCE	MONTHS	AMOUNT
PWSS- Fees	6.00	34,508
IGA – Clean Water (UGReg)	3.00	17,254
IGA – Clean Water (SWReg)	3.00	17,254
TOTAL	12.00	69,016